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UNITED STATES DEPARTMENT OF AGRICULTURE
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Number 2.

Bibliographical Contributions.

April 1922.

Check List of Publications

of the

State Agricultural Experiment Stations

on the subject of

Plant Pathology

1876-1920

Compiled in the Library of the Bureau of Plant Industry.

Washington, D. C.

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A CHECK LIST OF THE PUBLICATIONS ON THE SUBJECT OF PLANT PATHOLOGY
ISSUED BY THE STATE AGRICULTURAL EXPERIMENT STATIONS
1878-1920.

Prepared by the late Eunice R. Oberly, Librarian, and Jessie M. Allen,
Assistant Librarian, Bureau of Plant Industry.

Miss Oberly, who planned this checklist and prepared a large part of the copy for it, died suddenly on November 5th, 1921. Fortunately she had prepared in advance the following introduction, which shows the aim and scope of the list.

"An effort has been made to include in this list of publications relating to plant pathology all material on the subject found in the station literature, without regard to its value or to the fact that some of the publications may have been superseded by others published later. General summaries concerning the diseases of certain plants included in bulletins on crops in general have been included, though in most cases this material is found in more complete form in other publications. No extension literature has been included, and press and popular bulletins and circulars only when they were published in fairly permanent form. Complete sets of the press bulletins of some of the stations are difficult to obtain, some not being available even in the Library of the States Relations Service. In the annual reports, administrative reports of the director have not been listed in cases where full reports of the department were found.

"It is hoped that this list will be useful to persons who wish to accumulate or complete files of station literature on the subject represented, and that it may also have some historical interest, since it gives a general survey of the development of the work on plant pathology in the various stations, as represented in its publications. Since this checklist will be used as the basis of a subject index for station literature, all users are urged to report omissions and errors."

At the time of Miss Oberly's death the work had progressed only as far as the publications of the state of Ohio. The loss of her knowledge of the subject of plant pathology has been a great handicap in the completion of the work. While it is not now known when the index mentioned by Miss Oberly can be prepared, any omissions and errors which may be reported will be noted in the hope that the plan for a subject index may sometime be carried out.

Jessie M. Allen,

Assistant Librarian, Bureau of Plant Industry.

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(a) Through an error pages 119-142 were duplicated. For convenience the second group of these pages is indicated in the contents by adding "a" to the page references.

ALABAMA (COLLEGE) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT, 1st-33d. 1888-1920.

Administrative reports, summarizing work and listing publications.

Report.

1st, 1888.	No pathology	
[2nd], 1889, p. 22-24:	Dept. of biology.	G.F. Atkinson.
3rd, 1890, p. 18-19:	Rept. of biologist.	
4th, 1891, p. 13-15:	Rept. of biologist.	
5th, 1892.	No pathology.	
6th, 1893, p. 17-18:	Rept. of biologist.	J.M. Stedman.
7th, 1894, p. 18-20:	Rept. of biologist.	
8th, 1895, p. 20-21:	Rept. of biologist.	L.M. Underwood.
9th, 1896, p. 22-27:	Rept. of biol. & hort. Rept. as biologist, p. 24-27.	F.S. Earle.
10th, 1897, p. 21-25:	Rept. of biol. & hort. Biology (Plant path.): p. 23-25.	
11th, 1898, p. 37-38:	Rept. of biol. & hort.	
12th, 1899, p. 30-31:	Rept. of biol. & hort.	
13th, 1900, p. 18-19:	Rept. of biol. & hort.	
14th, 1901, p. 343-44:	Rept. of biol. & hort.	E. Mead Wilcox.
15th, 1902, p. 33-35:	Rept. of biol. & hort.	
16th, 1903, p. 16-18:	Rept. of plant physiologist.	
17th, 1904, p. 7-8:	Rept. of plant phys. & path.	
18th, 1905, p. 20-21:	Rept. of plant phys. & path.	
19th, 1906, p. 26-27:	Rept. of plant phys. & path.	
20th, 1907, p. 22-23:	Rept. of plant phys. & path.	
21st, 1908:	No pathology.	
22nd, 1909, p. 21-22:	Rept. of botanist.	Francis E. Lloyd.
23rd, 1910, p. 21-24:	Rept. of plant physiologist.	
24th, 1911, p. 26-31:	Rept. of plant physiologist.	Frederick A. Wolf.
25th, 1912, p. 24-25:	Rept. of plant pathologist.	
26th, 1913, p. 27-28:	Rept. of plant pathologist.	
27th, 1914, p. (31)-(32):	Rept. of plant pathologist.	
28th, 1915:	Rept. of plant pathologist.	
29th, 1916, p. 17:	Rept. of plant pathologist.	Geo. L. Peltier.
30th, 1917, p. 18-19:	Rept. of plant pathologist.	
31st, 1918, p. 23:	Rept. of plant pathologist.	
32nd, 1919, p. 22-23:	Rept. of plant pathologist.	
33rd, 1920, p. 30-31:	Rept. of plant pathologist.	A.F. Thiel (Acting)

ALABAMA (COLLEGE) AGRICULTURAL EXPERIMENT STATION

BULLETIN (cont.)

Number.

156. Williams, P.F. &
Price, J.C.C. Peach growing in Alabama. 1911.
Self boiled lime mixture for disease control,
p. 126-127.

157. Williams, P.F. The Satsuma orange. 1911.
Diseases, p. 169-170. (From Hume, H. Citrus
fruits and their culture)

172. Wolf, F.A. Black spot of roses. 1913.

173. Duggar, J.F. &
Cauthen, E.F. Oats: experiments on culture, varieties and
fertilization. 1913.
Oat smut, p. 142-144.

179. Wheat in Alabama. 1914.
Principal diseases, p. 122-123.

180. Wolf, F.A. Leaf spot and some fruit rots of peanut
(*Arachia hypogaea* L.). 1914.

183. Price, J.C.C. Irish potatoes. 1915.
Spraying for early and late blight and scab,
p. 11-14.

187. Price, J.C.C. &
Stelzenmuller, G.V. Cabbage. 1916.
Diseases, p. 18-20.

189. Cauthen, E.F. Wilt resistant varieties of cotton. 1916.

190. Wolf, F.A. Citrus canker. 1916.

193. Duggar, J.F.
et al. Peanuts, tests of varieties and fertilizers.
1917.
Diseases, p. 23.

194. Growing peanuts in Alabama. Popular edition of
193, 1917.
et al. Diseases, p. 47.

199. Winberg, O.F.E.
et al. Report on freeze injury to citrus trees for
1916 and 1917... 1918.

203. Cauthen, E.F. Soy beans in Alabama. 1918.
Enemies, p. 118-120.

CIRCULAR
No. 1-43. 1906-1920.

2. Stone, R.E. Cedar apples and apple-leaf fungi. 1908.

14, Pt. II. Williams, P.F. &
Connelly, H.M. Vegetable growing in Alabama. 1912.

27. Wolf, F.A. &
Massey, A.B. Some common insects and diseases of the garden, p. 78
Citrus canker. 1914.

The reports of the "Work done under the Local Experiment Law",
1912-1919, which were issued as Circulars 19, 20, 25, 31, 34, 35, 38,
40, 43, contain reports of the work on pathology done under this law.
See p. 2.

ALABAMA (COLLEGE) AGRICULTURAL EXPERIMENT STATION.

PRESS BULLETIN.

Contains some material on plant diseases, but not listed here, as they are of little value, and are usually merely popular abstracts of regular bulletins and circulars.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

1916-1920.

Number.

Ala.-1. Wolf, F.A. Further studies on peanut leafspot. 1916.
Ala.-2. Citrus canker. 1916.
Ala.-3. Culpepper, C.W. Some effects of blackrot fungus, *Sphaeropsis malorum*, upon the chemical composition of the apple. 1916.
et al.
Ala.-4. Peltier, G.L. Susceptibility and resistance to citrus-canker of the wild relatives, citrus fruits, and hybrids of the genus *Citrus*. 1918.
Ala.-5. Neal, D.C. Overwintering of the citrus-canker organism in the bark tissue of hardy citrus hybrids. 1918.
Ala.-6. Peltier, G.L. & Relative susceptibility to citrus-canker of different species and hybrids of the genus *Citrus*, including wild hybrids. 1920.
Frederich, J.W.
Ala.-7. _____ Influence of temperature and humidity on the growth of *Pseudomonas citri* and its host plants and on infection and development of the diseases. 1920.

ALABAMA (CANE BRAKE) AGRICULTURAL EXPERIMENT STATION

ANNUAL REPORT.

1888-1898.

12th, 1897, p.6-8: Experiment with "rust" of cotton.

BULLETIN
No.1-27. 1888-1910.

19. Duggar, J.F. & Tests with oats and wheat at Uniontown in Richeson, J.M. 1903. 1903.
Prevention of oat smut, p.8-9.

ALABAMA (TUSKEGEE) AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-37. 1898-1918.

Number.

4. Carver, G.W. Some Cercosporae of Macon county, Alabama. 1901.
28. Malone, R.E. Smudging an orchard with native material in Alabama. [1915?]
36. Carver, G.W. How to grow the tomato... 1918.
Fungus diseases, p. 7-10. 1908.

ARIZONA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-30th. 1890-1918/19.

A few scattering references on plant diseases will be found in the annual reports. The 13th Annual Report, p. 238, states that "the work in plant physiology and pathology was separately organized... at the commencement of the present year... Jan 1, 1907". In 1909, on the resignation of the plant pathologist, the division seems to have been discontinued.

Report.

1st, 1890-4th, 1893: No pathology.
5th, 1894, p. 43-46: Rept. of botanist and entomologist. J.W. Toumey.
6th, 1895. No pathology. (Report in Bul. 19).
7th, 1896-8th, 1897: No pathology. (Buls. 24 and 25 resp.).
9th, 1897/98, p. 160-69: Report of botanist.
10th, 1898/99, p. 235-41: Report of botanist.
11th, 1900, p. 167-70: Department of botany. A.A. Tyler.
12th, 1900/01, p. 333-38: Department of botany. D. Griffiths.
13th, 1901/02, p. 261-65: Department of botany. J.J. Thornber.
14th, 1902/03. No pathology.
15th, 1903/04, p. 489-93: Department of botany.
16th, 1904/05, p. 17-22: Department of botany.
17th, 1905, p. 156-62: Department of botany.
18th, 1907, p. 230-32: Department of veg. phys. and path. W.B. McCallum.
19th, 1907/08, p. 357-61: Plant physiology and pathology.
20th, 1908/09, p. 583-86: Plant physiology and pathology.
21st, 1909/10. No pathology.
22d, 1910/11, p. 551-52: Entomology. W.A. Morrill.
[Spraying with fungicides] p. 5.
23d, 1911/12. No pathology.
25th, 1913/14.
26th, 1914/15, p. 538-52: Horticulture. W.H. Lawrence &
Strawberry root rot, p. 539. S.B. Johnston.
Sunscald of newly planted olive
trees, p. 549-52.

ARIZONA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (cont.)

27th, 1915/16, p. 270-74:	Botany.	J. J. Thornber.
	Root rot disease, p. 270-71.	
p. 275-77:	Horticulture.	S. B. Johnston.
	Arizona climate and bean anthracnose, p. 276-77.	
28th, 1916/17, p. 412-26:	Agronomy.	H. C. Heard.
	[Fusarium disease of cotton], p. 417-18.	
p. 427-33:	Botany.	J. J. Thornber.
	Plant disease inquiries, p. 431-32.	
29th, 1917/18, p. 297-302:	Botany.	
	Plant disease studies, p. 301-02.	
30th, 1918/19.	No pathology.	

BULLETIN.

No. 1-91. 1890-1920.

Number.

12. Toumey, J.W. Preliminary report of observations on the "crown-knot". 1894.

17. Agricultural convention, pt. II. 1895.
Toumey, J.W. Economic fungi. (Abstract), p. 19-24.

32. Cockerell, T.D.A. Some insect pests of Salt River Valley and the remedies for them. 1899.
The black rot of the naval orange (*Macrosporium* n. sp.), p. 292-294.

33. Toumey, J.W. An inquiry into the cause and nature of crown gall. 1900.

34. Timely hints for farmers [no. 1-18]. Distributed 1899 to 1900.
No. 5, p. 76-79. Toumey, J.W. Crown gall.

38. Timely hints for farmers [no. 19-34]. Distributed 1900 to 1901.
No. 20, p. 242-245. Griffiths, D. Stinking smut of wheat.

53. Forbes, R.H. Irrigating sediments and their effects upon crops. 1906.
Other causes of crop failure [sunburn], p. 84-85.
Plant diseases, p. 85-86.

58. Coit, J.E. Citrus culture in the arid Southwest. 1908.
Diseases of citrus trees, p. 323-326.

60. Timely hints for farmers [no. 67-76]. Distributed 1907 to 1908.
No. 76, p. 456-464. McCallum, W.B. Some common plant diseases.

62. Coit, J.E. Olive culture and oil manufacture in the arid southwest, p. 525-555.
Dry rot, p. 530.

73. Freeman, G.F. Alfalfa in the Southwest. 1914.
Diseases of alfalfa, p. 303-308.

ARIZONA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

75. Freeman, G.F. Papago sweet corn, a new variety. 1915.
Diseases - smut, p.466-467.
77. Lawrence, W.H. Practical fig culture in Arizona. 1916.
Splitting and scouring of the fruit, p.41-42.
79. Uphof, J.C.T. Cold-resistance in spineless cacti. 1916.
Effects of freezing the tissues, p.138-142.
80. Forbes, R.H. Certain effects under irrigation of copper com-
pounds upon crops. 1916.
90. Thompson, G.E. & Cotton growing in Arizona. 1919.
Wood, C.J. Angular leaf spot, p.273-274. Root rot, p.274.

TIMELY HINTS FOR FARMERS.

No.1-135. 1899-1918.

5. Toumey, J.W. The crown gall. 1899. (Also Bul. 34, p.76-79.)
20. Griffiths, D. Stinking smut of wheat and its prevention. 1900.
(Also Bul. 38, p. 242-245.)
76. McCallum, W.B. Some common plant diseases. 1908. (Also Bul.
1908, p.456-464.)
97. Freeman, G.F. Grain smuts. 1912.
99. Morrill, A.W. How to control rose aphid and rose mildew. 1913.
113. Jones, D.F. Orchard heating. 1915.
118. Thornber, J.J. Crown gall. 1916.

ARKANSAS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-21st. 1888-1907/08.

Early reports contain a few articles and short notes on plant pathology. Many contain no pathological material, while some have short administrative reports of work in plant pathology. The 6th Report for 1893, p.[7], states that "The veterinarian or animal pathologist will in the future investigate fungous diseases of plants as well as of animals," but no pathology appears in his later reports.

Report.

1st,[1888],

p.127-30: Trelease, W. The apple leaf rust, *Gymnosporangium*.

ARKANSAS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.
2d, 1889: Horticultural department. Strawberries- [List of varieties showing leaf blight prevalence], p. 84-89. (Same as Bul. 11) E.S. Richmond.
Report of entomologist. C.W. Woodworth.
Botanical notes, p. 190-93.
3d, 1890: Horticulture. J. McNeill.
Coating apples with parafine, p. 38.
Strawberries- [varieties free from leaf blight], p. 41-46.
[Grapes, resistant to rot], p. 49-61.
Staff on entomologist's report. C.W. Woodworth.
Experiments with arsenites, p. 81-97.
4th, 1891-6th, 1893: No pathology.
7th, 1894: [Report of horticulturist.] J.T. Stinson.
Apple scab and bitter rot, p. 23-44. (Same as Bul. 26).
8th, 1895: No pathology.
9th, 1896: Horticultural division. J.T. Stinson.
Spraying fruits, p. 17-22. (Same as Bul. 39).
Report of horticulturist.
Pear blight, p. 117-20. (Same as Bul. 43).
10th, 1897-12th, 1899: No pathology.
13th, 1900,
p. 112-13: Vincenheller, W.G. Trial orchards, crown gall.
14th, 1901: No pathology.
15th, 1902,
p. 3-32: Walker, E. Why apple trees fail. (Same as Bul. 71).
16th, 1903-
18th, 1905: No pathology.
19th, 1906,
p. 143-210: Walker, E. Suggestions upon the care of apple orchards. (Same as Bul. 91.)
20th, 1907,
p. 16-17: Report of the horticultural department. E. Walker.
p. 49-89: Walker, E. Spraying notes and suggestions for combatting crop pests. (Same as Bul. 95.)
21st, 1908,
p. 13: Department of horticulture. E. Walker.

BULLETIN.

No. 1-172. 1888-1920.

Number,

7. Horticulture. 1888.

Grapes: [Varieties attacked by mildew], p. 3, 6-12.

11. Strawberries: wheat, oats. 1889.

Varieties [of strawberries, showing leaf-blight prevalence], p. 3-9. (Also in 2d Ann. rept. 1889, p. 84-89.)

ARKANSAS AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

14. Woodworth, C.W. The effects of the arsenites upon plants. 1890.
(Also in 3d Ann. Rpt. 1890, p.81-97.)

21. Stinson, J.T. Horticulture. Some insects and fungous diseases
of grapes and apples; spraying apparatus. 1893.

26. Horticulture. Spraying apple trees. 1894.
Apple scab and bitter rot, p.23-44. (Also in
7th Ann. Rpt. 1894, p. 23-33.)

39. Horticultural division. 1896. (Also in 9th Rpt: 17-22.)
Spraying fruits, p. 17-22.

43. Report of the horticulturist. 1896.
Pear blight, p. 117-120. (Also in 9th Ann.
Rpt. 1896, p.117-120.)

71. Walker, E. Why apple trees fail. 1902.
(Also in 15th Ann. Rpt., 1902, p. 3-32.)

86. II. Asparagus growing in Arkansas. 1905.
Diseases: rust, p.46.

91. Suggestions upon the care of apple orchards. 1906.
(Also in 19th Ann. Rpt. 1906, p.143-210.)

95. Notes on spraying and suggestions for combatting
crop pests. 1907.
(Also in 20th Ann. Rpt. 1907, p.49-89.)

109. Hewitt, J.L. & Diseases of apple trees and fruit caused by
Hayhurst, P. fungi and insects. 1911.

110. Hewitt, J.L. Rice blight. 1912.

112. Hewitt, J.L. & An unknown apple tree disease. 1912.

113. Hewitt, J.L. Twig blight and blossom blight of the apple. 1913.

114. Spraying investigations for 1912. 1913.

144. Elliott, J.A. Storage rots of sweet potatoes. 1918.

149. Arkansas peach diseases. 1918.

158. Nelson, M. Nature and progress of the work of the agricultural
experiment station. 1918.

Plant pathology, p.52-56. (Administrative re-
port on the current projects.)

162. Rosen, H.R. A bacterial root-rot of field corn. 1919.

167. The mosaic disease of sweet potatoes. 1920.

172. Fields, W.S. & Making Bordeaux mixture and some other spraying
Elliott, J.A. problems. 1920.

CIRCULAR.

No. 1-49. 1909-1920.

7. Hewitt, J.L. How to control the scab and blotch of the
apple. 1911.

17. The new Arkansas law with reference to the inspection of nurseries
and the transportation of nursery stock. 1913.

18. The new local option orchard and small fruit inspection law. 1913.

ARKANSAS AGRICULTURAL EXPERIMENT STATION.

CIRCULAR (Cont.)

Number.

21. Hewitt, J.L. Tomato diseases. 1914.
23. _____ The Arkansas dilution table for lime sulphur compound. 1914.
43. Elliott, J.A. Control of wheat and oat smuts. 1918.
48. Spray calendar. 1920.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1876-1919.

The early reports contain signed articles on diseases of plants; the later reports are merely administrative accounts of the progress of work. A Division of plant pathology was organized, with some private support, in 1903. For an account of the development of the work in pathology see Rept. 1917/18, p. 86-88.

Report.

1876/7: No pathology.
1878/9, Suppl., p.100-5: Dwinelle, C.H. Rust [in wheat].
1880/1- [81/2]: No pathology.
[1883/4], p.86-87: Rust-resisting grains. (In report of C.H.Dwinelle).
1885/6: No pathology.
1887/88: No pathology.
[1888/89], p.50-53: Insect pests and diseases of plants and animals. E.S.Hilgard.
1889/90: No pathology.
1891/92, p.227-32: Blasdale, W.C. Studies in the life history of a Puccinia found on Oenothera ovata.
p.258-70: Woodworth, C.W. Synopsis of the diseases of cultivated plants.
1892/3-94, p.297-98: A new disease of the olive trees. [Cycloconium oleaginum]. (In Hayne, A.P. Olives and olive oils).
p.435-36: Woodworth, C.W. A laboratory of plant diseases.
p.436-40: _____ Root knots on fruit trees and vines.
p.441-61: _____ Experiments in winter spraying of apples and pears.
p.461-62: Remedies for plant diseases.
1894/95, p.231-49: Entomology and plant diseases. C.W.Woodworth.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

1895/96-96/7,

p.213-33: Entomology and plant diseases. C.W.Woolworth.

p.234-33: Bioletti, F.T. Some diseases of olives.

p.237-42: _____ Specimens of diseased plants, etc.

1897/98, p.178-84: _____ Plant diseases and entomology.

1898/1900,

Pt.II, p.304-7: _____ Olive cultivation, oil making, pickling and diseases.

Diseases, p.204-07.

p.330-33: Bioletti, F.T. Brown rot of stone fruits.
(Same as Unnumb. Circ. 1901)

1901/03:

No pathology.

1903/04, p.84:

Division of plant pathology.

R.E.Smith.

1904/05:

No reports.

1906:

For Report of plant pathologist,
see Bul. 184.

1906-09:

For Report of plant pathologist, 1906/09,
see Bul. 203.

1910-12:

No reports.

1912/13,

p.xxviii-xxxv. [Administrative report of work on diseases,
by director].

p.lii-lv: Plant pathology.

1913/14,

p.67-72: [Citrus experiment station pathological projects
described.]

p.139-42: Plant pathology.

R.E.Smith.

1914/15,

p.10,11, 22-25: [Administration reports.]

1915/16,

p.50-52: "Station achievements" [in plant pathology]:
(Administrative rept.)

1916/17: No pathology.

1917/18: Wickson, E.J. Beginnings of agricultural education
and research in California.

Plant diseases, p.86-88.

1918/19,

p.42-44: Walnuts. (Pathological work.)

REPORT OF VITICULTURAL WORK.

1883/4-84/5, Appendix VI to Report of the Station for [1883/4].
p.136-7: Hilgard, E.S. The vine mildew and its antidotes.
(Reprints Bul. 50).

p.155-184: Morse, F.A. Investigations of vine diseases
[couloure].

1887/93-94/5,

p.450-453: Bioletti, F.T. Miscellaneous notes.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

BULLETIN

No. 1-325. 1884-1920.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

200. Smith, R.E. & Butler, O. Gum disease of citrus trees in California. 1908.

203. Smith, R.E. Report of the plant pathologist and superintendent of southern California stations, July 1906 to June 30, 1909. 1909.

208. Rogers, S.S. The late blight of celery. 1911.

211. Shaw, G.W. How to increase the yield of wheat in California. 1911.

218. Smith, R.E. & Smith, E.H. Prevention of smut, p. 285-289. California plant diseases. 1911.

231. Smith, R.E. et al Walnut culture in California. Walnut blight. 1912. Diseases affecting the walnut, p. 320-383.

235. Smith, C.O. Further proof of the cause and infectiousness of crown gall. 1912.

239. Rogers, S.S. The culture of tomatoes in California, with special reference to their diseases. 1913.

250. Condit, I.J. The loquat. 1915. Diseases, p. 280-281.

261. Fawcett, H.S. Malaxuma of the walnut. "Juglans regia". (A preliminary report), 1915.

262. _____ Citrus diseases of Florida and Cuba compared with those of California. 1915.

265. Smith, C.O. Cottony rot of lemons in California. 1916.

266. Fawcett, H.S. A spotting of citrus fruits due to the action of oil liberated from the rind. 1916.

269. Gray, G.P. Phenolic insecticides and fungicides. 1916.

276. Hodgson, R.W. The pomegranate. 1917. Diseases and insect pests, p. 189-192.

290. Coit, J.E. & Hodgson, R.W. The June drop of Washington navel oranges, a progress report. 1918.

297. Taylor, R.H. The almond in California. 1918. Orchard heating for frost prevention, p. 39-40. Diseases, p. 52-56.

304. Webber, H.J. et al A study of the effect of freezes on citrus in California. 1919.

316. Condit, I.J. The kaki or oriental persimmon. 1919. Crown gall, p. 264.

318. Kelley, W.P. & Thomas, E.E. The effects of alkali on citrus trees. 1920.

CIRCULAR.

No. 1-226. 1903-1920.

9. Smith, R.E. Report on asparagus rust investigation. 1904.

27. Hilgard, E.W. Marly subsoils and the chlorosis or yellowing of citrus trees. 1906.

35. Smith, R.E. Southern California pathological laboratory and citrus experiment station. 1908.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

CIRCULAR (Cont.)

Number.

65. Woodworth, C.W. The California insecticide [and fungicide] law. 1911.

85. Thomas, E.E. A preliminary report of a nematode observed on citrus roots and its possible relation with the mottled appearance of citrus trees. 1913.

104. Woodworth, C.W. The amended insecticide [and fungicide] law. 1913.

107. Smith, R.E. et al Spraying walnut trees for blight and aphis control. 1913.

120. Shear, W.V. Potato growing in the San Joaquin and Sacramento deltas of California. 1914.
Diseases directly responsible for decreased yield, p.4-10.

130. Rogers, S.S. Cabbage growing in California. 1915.
Diseases, p.17-18.

137. Horne, W.T. Wood decay in orchard trees. 1915.

141. Gray, G.P. Standard insecticides and fungicides versus secret preparations. 1915.

144. Bioletti, F.T. & Flossfeder, F.C.H. Oidium or powdery mildew of the vine. 1915.

147. Rogers, S.S. Tomato growing in California. 1916. (Revision of Bul. 239).
Diseases of the tomato, p.9-12.

157. Smith, R.E. Control of pear scab. 1916.

161. Gilmore, J.W. Potatoes in California. 1917.
Diseases, p.5-7.

195. Gray, G.P. Revised compatibility chart of insecticides and fungicides. 1918.

199. Rogers, S.C. Onion growing in California. 1918.
Crop troubles, p.20-21.

204. Smith, R.E. et al Handbook of plant disease and pest control. 1918.

214. Mackie, W.W. Seed treatment for the prevention of cereal smuts. 1919.

216. Batchelor, L.D. & Reed, H.S. Winter injury or die-back of the walnut. 1919.

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1898-1918.

Bioletti, F.T. Brown rot of stone fruits. 1901.
A warning to olive growers [against olive-knot]. 1901.

Mackie, W.W. Prevention of stinking smut of wheat and covered smut of barley. 1917.
Prevention of stinking smut of wheat and covered smut of barley. 1918. (Revision of 1918 circ.).

CALIFORNIA AGRICULTURAL EXPERIMENT STATION.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.
1916-1920.

Cal.-4. Woodworth, C.W. A new spray nozzle. 1916.
Cal.-9. Bioletti, F.T. & Bonnet, L. Little-leaf of the vine. 1917.
Cal.-10. Lee, H.A. A new bacterial citrus disease. 1917.

COLOPADO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT

1st-32nd. 1888-1919.

The short administrative reports of progress of several of the divisions of the station contain references to pathological work.

Report.

1st, 1888,
p. 57-150: Report of hort. & botanist. J. Cassidy.
Apple twig blight, p. 64-70.

2nd, 1889-
10th, 1897: No pathology.

11th, 1898,
p. 135-41: Report of sect. of bot. & hort. C.S. Crandall.
Plant diseases, p. 141.

12th, 1899:
13th, 1900,
p. 122: Report of hort. & botanist. W. Paddock.

14th, 1901,
p. 40-41: Report of hort. & botanist. _____

15th, 1902,
p. 128-30: Report of hort. & botanist. _____

16th, 1903,
p. 22-23: Report of hort. & botanist. P.K. Blinn.
Report of Arkansas Valley field agent.

17th, 1904,
p. 57-100: Report of hort. & botanist. W. Paddock.
p. 111-13: Report of Arkansas Valley field agent. P.K. Blinn.
Beet seed resistant to curly top.
Rust resistant cantaloupe.

18th, 1905,
p. 43-46: Report of hort. & botanist. W. Paddock.

19th, 1906,
p. 125: Section of hort. & botany. _____

p. 125-26: Western Slope horticultural invest. _____

p. 135-37: Subsection of Western Slope fruit invest. O.B. Whipple.

COLORADO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT. (Cont.)

Report.

19th, 1906,

p.140-41: Subsection of potato investigations.

E.R. Bennett.

p.167-69: Report of Arkansas Valley field agent.

P.K. Blinn.

20th, 1907,

p.27: Report of hort. & botanist.

W. Paddock.

p.29-30: Report of potato investigations.

E.R. Bennett.

p.31-32: Western Slope fruit investigations.

O.B. Whipple.

21st, 1908,

p.145-46: Report of bacteriologist.

W.G. Sackett.

p.141-42: [Report of the horticulturist].

W. Paddock.

p.143-44: Report of field horticulturist.

O.B. Whipple.

22nd, 1909,

p.36-7: Report of hort. & potato invest.

E.R. Bennett.

23d, 1910,

p.94-5: Report of botanist.

B.O. Longyear.

p.85-88: Report of field horticulturist.

R.S. Herrick.

p.91-93: Report of the bacteriologist.

W.G. Sackett.

24th, 1911,

p.16-21: Report of bacteriological section.

R.S. Herrick.

p.59-63: Report of field horticulturist.

C.L. Fitch.

p.65-66: Report of potato specialist.

W.G. Sackett.

25th, 1912,

p.21-27: Report of bacteriologist.

W.G. Sackett.

p.43-44: Report of potato specialist.

C.L. Fitch.

26th, 1913,

p.16-18: Report of bacteriologist.

W.G. Sackett.

27th, 1914,

p.8: [Reference to Chemical Dept.'s work on
"yellow berry" of wheat. Not found in
report of Chemical Dept.]

W.G. Sackett.

p.18-21: Report of bacteriologist.

W.G. Sackett.

28th, 1915,

p.12-13: Report of bacteriologist.

W.G. Sackett.

29th, 1916,

p.22-24: Report of bacteriologist.

W.G. Sackett.

p.24-25: Report of botanist.

W.W. Robbins.

30th, 1917,

p.20-21: Report of bacteriologist.

W.G. Sackett.

p.22: Report of botanist.

W.W. Robbins.

31st, 1918,

p.20-23: Report of botanist.

W.W. Robbins.

32d, 1919,

p.13-17: Report of botanist.

J.G. Leach.

COLORADO AGRICULTURAL EXPERIMENT STATION

BULLETIN

No. 1-264. 1887-1920.

Number.

41. Crandall, C.S. Blight and other plant diseases. 1898.
50. _____ Notes on plum culture. 1898.
Insects and diseases, p.23-31.
62. Griffin, H.H. Cantaloupes. 1901.
Disease of the vine, p.7-15.
64. Press bulletins, no.1-11. 1901. (See Press Buls. no. 4, 6, 8, p. 20.)
68. Griffin, H.H. Arkansas Valley substation. 1902.
Cantaloupe blight in 1901, p.12-14.
Plant diseases of 1901. 1902.
70. Rolfs, F. M. Potato failures. A preliminary report. 1902.
78. Griffin, H.H. The tomato industry of the Arkansas Valley. 1903.
[Diseases], p.17-18.
79. Reed, J. Treatment of stinking smut in wheat. 1903.
84. Paddock, W. An apricot blight. 1903.
86. Crown gall. 1903.
91. Rolfs, F.M. Potato failures, a second report. 1904.
92. Paddock, W. Large potato vines and no potatoes. 1904.
104. Blinn, P.K. A rust-resisting cantaloupe. 1905.
105. Longyear, B.O. A new apple rot due to an undescribed species of
Alternaria. 1905.
107. Whipple, O.B. Peach mildew. 1906.
117. Bennett, E.R. The Colorado potato industry. 1907.
Fungous diseases, p.16-19, 21.
118. Whipple, O.B. Western Slope fruit investigation, 1906. Report
of the field horticulturist. 1907.
Plant diseases, p.5-12.
121. Blinn, P.K. Alfalfa, sugar beets, cantaloupes. Notes, 1906.
126. _____ 1907.
[Rust resistant] cantaloupes, p.6-8.
Cantaloupe breeding. 1908.
[Breeding rust-resistant varieties], p.5-6.
131. Headden, W.P. Arsenical poisoning of fruit trees. 1908.
138. Sackett, W.G. Some bacterial diseases of plants. 1909.
155. Headden, W.P. The fixation of nitrogen in some Colorado soils.
1910.
(Describes injurious effects on plants.)
157. _____ Arsenical poisoning of fruit trees. 1910.
158. Sackett, W.G. A bacterial disease of alfalfa. 1910.
159. _____ A new alfalfa disease, stem blight. 1910.
(Abbreviated edition of Bul. 158)
160. Headden, W.P. Nitrates in the soil. An explanation of so-called
"black alkali" or "brown spots". 1910.
(Injurious effects on plants.)
170. Herrick, R.S. Winter and frost injuries of fruit trees. 1910.
171. _____ & Bennett, E.R. The Colorado raspberry industry. 1910.
Diseases, p.16.
175. Fitch, C.L. & Bennett, E.R. The potato industry of Colorado. 1910.
Potato diseases, p.36-42.
177. Sackett, W.G. Hold-over blight in the pear. 1911.

COLORADO AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont'd.)

Number.

178. Headden, W.P. The fixation of nitrogen in some soils. A further study. 1911. (Injurious effects on plants.)

179. Sackett, W.G. Bacteriological studies of the fixation of nitrogen in certain Colorado soils. 1911. (Injurious effects on plants.)

183. Headden, W.P. Deterioration in the quality of sugar beets due to nitrates formed in the soil. 1912.

186. The fixation of nitrogen in Colorado soils. The distribution of the nitrates and their relation to the alkalis. 1913. (Injurious effects on plants.)

193. Sackett, W.G. The nitrifying efficiency of certain Colorado soils. 1914. (Injurious effects on plants.)

195. Sandsten, E.P. Small fruits for Colorado. 1914. Fungous diseases, p.18-19.

196. Some soil changes produced by micro-organisms. 1914. (Injurious effects on plants.)

205. Headden, W.P. Yellow-berry in wheat, its cause and prevention. 1915.

206. Sackett, W.G. Syring blight of the red raspberry caused by Sphaerella rubina. 1915.

212. Robbins, W.W. & Reinking, O.A. Fungous diseases of Colorado crop plants. 1915.

216. Fitch, C.L. Studies of health in potatoes. 1915.

218. Sackett, W.G. A bacterial stem blight of field and garden peats. 1916.

219. Headden, W.P. A study of Colorado wheat: pt.III. 1916. Yellow-berry, p.30-47.

220. Sandsten, E.P. Causes of inferior wheat grown in 1914, p.92-98.

Potato growing in Colorado. 1917. Potato diseases, p.26-28.

223. Sandsten, E.P., Limbocker, T.F. & McGinty, R.A. A fruit survey of Mesa County. 1917. Pear blight, p.33-34.

226. Kezer, A. & Sackett, W.G. Beans in Colorado and their diseases. 1917.

231. Headden, W.P. "Black alkali" in the San Luis Valley. 1917. "Black alkali" poisonous to plants, p.6-13.

234. Kezer, A. & Sackett, W.G. Beans in Colorado and their diseases. 1918. (Rev. ed. of Bul. 226.)

238. Robbins, W.W. et al Cleaned, treated and tested seed for Colorado. 1918.

239. Headden, W.P. Alkalies in Colorado (including nitrates). 1918. (Injurious effects on plants.)

242. Vasey, H.E. Millet smuts and their control. 1918.

243. Sandsten, E.P. Potato culture in Colorado. 1918. Potato diseases, p.28-32.

248. Robbins, W.W. & Eggington, G.E. Alfalfa dodder in Colorado. 1918.

COLORADO AGRICULTURAL EXPERIMENT STATION.

PRESS BULLETIN.

No. 1-58. 1899-1915.

Number.

4. Griffin, H.H. Canteloupe blight. 1900. In Bul. 64, p.12-14.
6. Potter, C.H. A so-called blight cure. In Bul. 64, p.17-18.
8. Paddock, W. & Rolfs, F.M. Potato failures. 1901. In Bul. 64, p.21-22.
12. Paddock, W. Potato failures. 1902. (Abstract of Bul. 70.)
24. Olin, W.H. Formalin treatment of seed grain for smut. 1906.
26. Paddock, W. Potato problems. 1906.
28. Paddock, W. A new alfalfa disease. 1906.
43. Plant diseases. 1907.
49. Kezer, A. Treatment of seed grain to prevent smut. 1915.

CONNECTICUT (STATE) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1877-1919.

The annual reports of the mycologist, later of the botanist, consist mainly of signed articles of importance, often profusely illustrated, giving original reports of the work done on various problems. A few references to pathology appear in reports of the entomologist and of the forester.

Reports.

[1st], 1877, p.67-70: Johnson, S.W. Strawberry blight.
[*Stigmatea fragariae*].

[2d], 1878, p.108-11: Johnson, S.W. Potato scab and skin crack.

3d, 1879-9th, 1885: No pathology.

[10th], 1886, p.79-80: Potato scab.

[13th], 1889, p.127-77: Report of the mycologist. R. Thaxter.

[14th], 1890, p.80-113: Report of mycologist.

15th, 1891, p.150-86: Report of mycologist.

16th, 1892, p.36-49: Report of mycologist.

17th, 1893, p.72-111: [Report of mycologist.]

 p.253-85: Sturgis, W.C. Literature of fungous diseases
 ... 1886-1893. (Already printed as Bul. 118.)

18th, 1894, p.113-39: [Report of mycologist.] W.C. Sturgis.

19th, 1895, p.166-90: [Report of mycologist.]

20th, 1896, p.232-34: Britton, W.E. Blight, burn or scald of tomato plants. Note by S.W. Johnson, p.233-234.

 p.246-84: [Report of mycologist.] W.C. Sturgis.

CONNECTICUT (STATE) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

21st, 1897, Pt. III,	[Report of mycologist.]	W.C. Sturgis.
p.159-222:	Literature of fungous diseases ... 1887-1897, inclusive, p. 185-222.	
22d, 1898, p.225-67:	[Report of mycologist.]	
23d, 1899, Pt. III,		
p.236-38:	Britton, W.E. The stem-rot disease.	
p.265-82:	[Report of botanist].	W.C. Sturgis.
24th, 1900, Pt. III,		
p.219-97:	[Report of mycologist].	
	Literature of plant diseases... 1897-1900, p. 255-97.	
25th, 1901:	No pathology.	
26th, 1902:	No pathology.	
27th, 1903, Pt. IV,	Report of botanist.	G.P. Clinton.
p.279-370:		
28th, 1904, Pt. IV,	Report of botanist.	
p.311-84:		
29th, 1905, Pt. V,	Report of botanist.	
p.263-330:		
30th, 1906, Pt. V,	Report of botanist.	
p.307-68:		
31st-32d, 1907/08,	Report of botanist for 1907.	
Pt.VI, p.339-96:		
Pt.XII, p.849-907:	Report of botanist for 1908.	
33d-34th, 1909/10,		
Pt.VII, p.583-618:	G.P. Clinton & W.E.Britton. Tests of summer sprays on apples and peaches.	
Pt.X, p.713-74:	Report of the botanist for 1909 and 1910.	G.P. Clinton.
35th, 1911, Pt. IV.	Report of entomologist.	W.E.Britton.
	Inspection of imported nursery stock: pests found- rust on Junipers, p. 274.	
Pt.V, p.347-406:	G.P. Clinton & W.E.Britton. Tests of summer sprays on apples, peaches, etc.	
36th, 1912, Pt. V,	Report of the botanist for 1911 and 1912.	G.P. Clinton.
p.341-453:		
37th, 1913, Pt. III:	Report of entomologist.	
	Inspection of imported nursery stock: [Diseases], p.194.	
Pt.VI.	Report of forester.	W.O.Filey.
	Chestnut blight, p.400-401.	
38th, 1914, Pt.I, p.1-42:	Report of botanist for 1913.	G.P. Clinton.
Pt.III.	Report of entomologist.	W.E.Britton.
	Inspection of imported nursery stock: Pests found (includes fungi), p.124-26.	
Pt.VI, p.357-424:	Report of botanist, 1914.	G.P. Clinton.

CONNECTICUT (STATE) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

40, 1916, Pt.II.

Report of entomologist. W.E.Britton.

Inspection of imported nursery stock:

Infestations found 1915-16; plant
diseases, p. 76-77.

Pt.V, p.355-64:

G.P.Clinton & F.E.Rogers. Co-operative
potato spraying in 1916.

[41st], 1917/18:

Report of the station botanist for the
years 1917/18. (Bull.214, p.411-459). G.P.Clinton.

1917/18:

Report of entomologist for 1917. W.E.Britton.
(Bul. 203).

Inspection of imported nursery stock:
Plant diseases... 1916-17, p.241-242.

1918:

Report of entomologist. (Bul.211.) W.E.Britton.
Inspection of imported nursery stock:

Pests found... 1917-18. Plant diseases, p.262.

1919:

Report of entomologist. W.E.Britton.
Inspection of imported nursery stock. Pests
found 1918-19. Plant diseases, p.125. (Bul.218.)

BULLETIN.

No.1-223. 1877-1920.

Number.

97. Thaxter, R.

Fungous diseases of plants. 1889.

102. _____

Fungicides. 1890.

105. _____

The potato scab... 1890.

107. _____

The Connecticut species of *Gymnosporangium*
(cedar apples). 1891. (Also in Ann. Rpt.
1891, p. 161-165.)

111. Sturgis, W.C.

Common fungus diseases and methods of treatment.
1892.

115. _____

Common fungous diseases and their treatment. 1893.
(Reprinted with slight changes in Ann. Rpt.
1893, p.88-111.)
(Revision of Bul. 111.)

118. _____

A provisional bibliography of the more important
works published by the U. S. Department of Agri-
culture and the agricultural experiment stations
of the U. S. from 1886-1893 inclusive, on fungous
and bacterial diseases of economic plants. 1894.
(Also issued in 17th Ann. Rpt. 1893, pt.V;

Revisions in 21st Ann. Rpt. 1897, pt.III; 24th Ann. Rpt.
1900, pt.III.)

125.

Preparation and application of fungicides. 1893.

131. [Jenkins, E.W.
et al]

The protection of shade trees in towns and cities.
1900.

(Also in Ann. Rpt. 24th 1900. p.330-351).

Irritations of trees, p.8-10; poisoning by
illuminating gas, p.10.

CONNECTICUT (STATE) AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

142. Britton, W.E. & Spray calendar. 1903. (Sheet of cardboard.)
Clinton, G.P.
159. Spray calendar. 1908. (Sheet of cardboard.)
166. Hinson, W.M. & The management of tobacco seed beds. 1910.
Jenkins, E.H.
178. Stoddard, E.M. & The chestnut bark disease. (*Endothia gyrosa* var.
Moss, A.E. *parasitica* (Murr.) Clint.). 1913.
180. Jenkins, E.H. Studies on the tobacco crop of Connecticut. 1914.
Fungous and other diseases of tobacco, p. 46-57.
183. Britton, W.E. & Spray calendar. 1915. (Sheet of cardboard).
Clinton, G.P.
184. _____ Spray treatment, etc., for orchards. 1914.
199. _____ Spray calendar. 1918.
214. Clinton, G.P. Report of the station botanist for the years
1917 and 1918. 1919.
222. _____ New or unusual plant injuries and diseases found
in Connecticut, 1916-1919. 1920.

BULLETIN OF IMMEDIATE INFORMATION.

No. 1-10. 1905-1920.

2. Clinton, G.P. Blight and rot of potatoes. 1906.
4. Jenkins, E. & Root-rot of tobacco. 1906.
Clinton, G.P.

CONNECTICUT (SPORRS) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-31st. 1888-1918/19.

Beginning with the 15th report, 1903, the administrative reports of the horticulturist and assistant horticulturist contain brief summaries of work on spraying and other work on plant diseases.

Report.

1st, 1888-14-1901: No pathology.
15th, 1903, p. 18: Report of asst. hort. C.R. Bennett.
16th, 1904, p. 19: Report of asst. hort. _____
17th, 1905, p. 23: Report of asst. hort. _____
18th, 1906, p. xxr: Report of asst. hort. _____

CONNECTICUT (STORRS) AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

19th, 1907, p. xvi-xvii: [20th/21st], 1908/09,	Report of horticulturist.	C.D. Jarvis.
p. xxx-xxxiii:	Report of horticulturist.	
22d-23d, 1909/10-10/11,	Report of horticulturist.	
p. xxii-xxiv:	Report of horticulturist.	
24th, 1911/12-		
31st, 1918/19:	No pathology.	

BULLETIN.

No. 1-106. 1888-1920.

Number.

30. Bennett, E.R.	Spraying notes for 1903. [For melon blight].	1904.
41.	Spraying notes, 1904-1905.	1906.
56. Jarvis, C.D.	Control of insects and of plant diseases.	1909.
72.	Spraying cucumbers and melons.	1912.

DELAWARE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT

1st-16th/18th. 1888-1904/06. 1907-1919.

The early reports of the mycologist contain important articles on plant diseases, often illustrated, and occasional references to plant diseases are also found in the report of the horticulturist. Many of the early bulletins are reprinted wholly or in part in the annual reports. From 1903 to 1914 no reports were published, from 1915 to 1919, short administrative reports of progress, containing no articles.

Report.

1st, 1888.	No pathology.	
2nd, 1889,		
p. 37-100:	Report of botanist. ([Black rot of the grape], p. 69-87, same as Bul. 6, p. 7-28; Sulphide of potassium against pear scab, p. 88-91, same as Bul. 8, p. 11-14.)	F.D. Chester.
	Report of horticulturist.	M.H. Beckwith.
	Notes on black rot of grape, p. 106-109. (Same as Bul. 6, p. 28-32.)	

DELAWARE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

3d, 1890,

p. 44-91:

Report of mycologist.

F.D.Chester.

([Treatment of diseases of the vine], p. 45-69,
same as Bul. 10.)

4th, 1891,

p. 12-15:

The oat blight. (In Director's report)

Galloway, B.T. & Southworth, E.A. Preliminary notes on
a new and destructive oat disease, p. 13-14.

p. 40-74:

Report of mycologist.

F.D.Chester.

([Treatment of diseases of vine and pear leaf
blight], p. 40-47, same as Bul. 15, p. 3-10.)

5th, 1892,

p. 53-80:

Report of mycologist.

F.D.Chester.

([Spraying for peach rot], p. 53-66, same as Bul. 19.)

6th, 1893,

p. 103-31:

Report of mycologist.

F.D.Chester.

[Plant diseases], p. 103-15.

Report of horticulturist.

M.H.Bekwith.

[Peach yellows], p. 152-53.

Report of chemist.

C.L.Penny.

The preparation of ammoniacal solution of copper
carbonate, p. 172-83. (Same as Bul. 22).

7th, 1895,

p. 64-123:

Report of mycologist.

F.D.Chester.

[Plant diseases], p. 121-23.

Report of horticulturist.

M.H.Bekwith.

Blight affecting the body of pear and apples trees,
p. 153-59.

8th, 1896,

p. 35-82:

Report of mycologist.

F.D.Chester.

[Plant diseases], p. 35-69.

([Peach blight and apple scab], p. 35-59, same as Bul. 29.)

Report of horticulturist.

M.H.Bekwith.

[Leaf blight of strawberry, varieties attacked],
p. 91-97, 100-01.

9th, 1897,

p. 20-145:

Report of mycologist.

F.D.Chester.

Treatment of plant diseases in 1896, p. 20-38.

(Same as Bul. 34.)

Bacteria associated with plant diseases, p. 127-28.

Report of horticulturist.

G.H.Powell.

Peach yellows and nursery stock, p. 168-73.

Experiment with tomato blight, p. 174.

[Injurious fungi on cherry], p. 192-93. (Same as
Bul. 35, p. 17-19.

10th, 1898,

p. 39-137:

Report of mycologist.

F.D.Chester.

[Plant diseases], p. 39-46.

Report of horticulturist.

G.H.Powell.

Sun scald [of pea], p. 223-27. (Same as Bul. 41,
p. 8-11.)

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ANNUAL REPORT (Cont.)

Report.

11th, 1899,

p. 27-85:

Report of mycologist.

[Apple scab], p. 27-30.

F.D. Chester.

Report of horticulturist.

[Chestnut Diseases], p. 120-21. (Same as Bul. 42,
p. 20-21.)

Experiment with tomato blight, 1898, p. 153.

12th, 1900,

p. 36-76:

Report of mycologist.

F.D. Chester.

[Plant diseases], p. 36-46. (Notes on pear blight,
p. 38-43, same as Bul. 52, p. 2-6, except that report,
p. 38-40, contains description of organism not in Bul.)

13th, 1901,

p. 36-73:

Report of mycologist.

F.D. Chester.

[Plant diseases], p. 36-50. (In part same as Bul. 57.)

14th, 1902,

p. 40-78:

Report of mycologist.

F.D. Chester.

[Plant diseases], p. 40-46.

15th, 1903:

No pathology.

16th/18th,

1904/06, p. 70-77: Report of assistant mycologist. H.S. Jackson.

1907-1914: No pathology. (Reports in Bul. 80, 84, 88, 92, 94, 100,
103, 101, 107.)

1915:

Report of plant pathologist and soil

bacteriologist. (Bul. 111, p. 25-29.) F.T. Manns.

1916:

Report of plant pathologist. (Bul. 115, p. 22-25.) F.T. Manns.

1917:

Report of plant pathologist. (Bul. 119, p. 24-28.)

1918:

Report of plant pathologist. (Bul. 123, p. 28-30.)

1919:

Report of plant pathologist and soil bac-

teriologist. (Bul. 125, p. 24-28.)

BULLETIN.

No. 1-125. 1888-1919.

Number.

3. Chester, F.D.

The Department of botany and plant pathology. 1882.
[Black rot of grapes]. 1889. (Same material in
2nd Rept., p. 69-87, 106-09.).

6. Neale, A.T.

et al

The value of sulphide of potassium as a remedy
against pear scab, p. 11-14. 1890. (Also
in 2nd Rept., p. 88-91.).

8. Chester, F.D.

Diseases of the vine controlled by several different
salts of copper. 1890. (Same as 3d Rept., p. 45-59.)

10. _____

The leaf blight of the pear and the quince, [with
introduction by A. T. Neale]. 1891.

13. _____

Diseases of crops and their treatment. 1892.
(p. 3-10 also in 4th Rept., p. 40-47.)

15. _____

DELAWARE AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

19. Chester, F.D. Can peach rot be controlled by spraying? 1892.
(Also in 5th Rept., p. 53-66.)

22. Penny, C. L. The preparation of ammoniacal solution of copper carbonate. 1893. (Also in 6th Rept., p. 172-83.)

28. Beckwith, M.H. Strawberries. 1895.
Injury from leaf blight, p. 15-16.

29. Chester, F.D. Experiments in the treatment of peach rot and of apple scab. 1895. (Also in 8th Rept., p. 35-59.)

34. The treatment of plant diseases in 1896. 1897.
(Also in 9th Rept., p. 20-38.)

35. Powell, G. H. The cherry in Delaware. 1897.
Injurious fungi, p. 17-19. (Also in 9th Rept., p. 192-93.)

41. Pea canning in Delaware. 1898.
Sun scald (*Ascochyta pisi*, Lib.), p. 8-11. (Also in 10th Rept., p. 223-27.)

42. The European and Japanese chestnuts in the eastern United States. 1897.
Fungous troubles, p. 20; body blight, p. 21.
(Also in 11th Rept., p. 120-21.)

50. Sanderson, E.D. & Chester, F.D. Directions for treatment of insect pests and plant diseases. 1901. (Spray calendar. Broadside.)

52. Chester, F.D. Pear blight and pear canker. 1901. (In part same as 12th Rept. - See p. 26.)

57. Sundry notes on plant diseases. 1902. (In part same as 13th Rept., p. 36-50.)

63. Smith, C. O. & Notes on fungous diseases in Delaware. 1904.
(In part same as 13th Rept., p. 36-50.)

69. Close, C. P. Dust spraying in Delaware, p. 3-7. 1905.

70. Smith, C.O. The study of the diseases of some truck crops in Delaware. 1905.

72. Close, C.P. Dust and liquid spraying. 1906.

73. The K-L emulsions and spraying. 1906.

76. Third report on dust and liquid spraying. 1906.

83. Jackson, H.S. Diseases of field crops in Delaware in 1907. 1908.

85. McCue, C. A. Spraying for brown-rot of the peach, 1908. 1909.

91. Cook, M.T. & Taubenhaus, J.J. The relation of parasitic fungi to contents of the cells of the host plant. I. The toxicity of tannin. 1911.

93. Cook, M.T. The double blossom of the dewberry (*Fusarium rubi* Winter.) 1911.

97. & Taubenhaus, J.J. The relation of parasitic fungi to the contents of the cells of the host plants. II. The toxicity of vegetable acids and oxidizingenzym. 1912.

e.] 98. McCue, C.A. Plant protection. 1912.

105. Thompson, F. & Whittier, A.C. The composition of lime sulfur solutions. 1914.

106. Taubenhaus, J.J. The diseases of the sweet pea. 1914.

108. Manns, T.F. Some new bacterial diseases of legumes and the relationship of the organism causing the same. 1915.

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BULLETIN (Cont.)

Number.

109. Taubenhaus, J.J. The diseases of the sweet potato... and their
& Manns, T.F. control. 1915.
111. See p. 26, Ann. Rept. 1915.
114. Elliott, J.A. The sweet potato "soil rot" or "pox", a slime
mold disease. 1916.
116. See p. 26, Ann. Rept. 1916.
119. See p. 26, Ann. Rept. 1917.
122. See p. 26, Ann. Rept. 1918.
125. See p. 26, Ann. Rept. 1919.

PRESS BULLETIN.

No. 1-15. 189(?) - 1905.

[3]. The treatment of potato diseases. 1900.
[7]. Pear blight. 1900.
15. Chester, F. D. The prevention of smut in wheat and oats. 1905.

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1916-1920.

Del.-1. Taubenhaus, J.J. Soilstain, or scurf, of the sweet potato. 1916.

SPECIAL BULLETIN.

A-B. 1890-1895.

A. Chester, F. D. Fungicides. 1890.
B. Beckwith, M.H. Spray calendar. 1895.

FLORIDA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1888-1918.

From 1893 to 1904 the reports are merely short summaries of the year's work; after 1904 they contain extended accounts of experimental work, a few of which are reprinted as a whole or in part in bulletins. The later reports contain important articles on pathology by several different station officers.

Report.

[1888]-1890:	No pathology. (In Bul. 4, 8, 10.)	
1891:	Horticulture- Diseases, p. 9-11.	
1892:	No pathology.	
1893, p.16-19:	Botanist and entomologist. (In Bul. 24)	P.H.Rolfs.
1894-1895:	No pathology.	
1896, p.20-52:	Biologist and horticulturist.	
1897:	No pathology.	
1898, p.27-54:	Biologist and horticulturist. [Plant diseases], p. 29-36.	
1899-1900, p.24-51:	Botanist and horticulturist. [Plant diseases], p. 24-44.	H.H.Hume.
1901, p.76-96:	Botanist and horticulturist. [Plant diseases], p. 86-96.	H.S.Fawcett.
1902, p.23-26:	Botanist and horticulturist. [Plant diseases], p. 25-26.	H.H.Hume.
1903, p.14-16:	Botanist and horticulturist. [Plant diseases], p. 15-16.	
1904, p.11-14:	Botanist and horticulturist. [Plant diseases], p.12-13.	
1905, p.29-47:	Horticulturist.	F.M.Rolfs.
1906, p.xxi-xxvii:	Assistant in botany and horticulture.	H.S.Fawcett.
1907, p.livii-lvi:	Assistant in botany. [Plant diseases], p. lv-lvi.	R.Y.Winters.
p.xliii-lii:	Assistant plant pathologist.	H.S.Fawcett.
1908, p.lxiv-lxxxix:	Assistant in plant pathology.	
p.xc-xcv:	Assistant plant physiologist.	B.F.Floyd.
1909, p.xlvi-lxii:	Plant pathologist. (Citrus scaly bark, p.xlvi-lvii, in part same as Bul. 106, p. 29-33).	H.S.Fawcett.
p.lxiii-lxxviii:	Assistant plant physiologist.	B. F. Floyd.
p.lxxix-lxxxv:	Assistant in botany.	R.Y.Winters.
1910, p.xiv-lxv:	Plant pathologist. (Stem-end rot- Inoculation experiments, p. xlvii-xlix, same as Bul. 107, p.8-10.)	H.S.Fawcett.
p.lxvi-lxxviii:	Assistant plant physiologist.	B.F.Floyd.
1911, p.lviii-lxvii:	Plant pathologist.	H.S.Fawcett.
p.lxviii-		
lxxxi:	Plant physiologist.	B.F.Floyd.
1912, p.lxiv-xcii:	Former plant pathologist.	H.S.Fawcett.
p.xciii-xcviii:	Plant pathologist.	H.E.Stevens.
p.cii-cxiv:	Plant physiologist.	B.F.Floyd.
1913, p.xxvii-liii:	Plant physiologist.	
p.lxxii-lxxxvi:	Plant pathologist.	H.E.Stevens.
p.lxxxvii-xcv:	Assistant plant pathologist.	O.F.Burger.

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1914, p. lvii-lxxiv:	Plant pathologist.	H.E. Stevens.
1915, p. lxxvii-xciii:	Plant pathologist.	
p. xciv-xcviii:	Assistant plant pathologist.	C.D. Sherbakoff.
1916, p. 30R-50R:	Plant physiologist. (Injury to citrus trees by ground limestone, p. 38R-50R same as Bul. 137, p. 164-176. Bul. contains introduction and final paragraphs on prevention not in report).	B.F. Floyd
	Entomologist.	J.R. Watson.
	Combating nematodes by the use of calcium cyanamide, p. 55R-63R. (In part same as Bul. 136.)	
p. 66R-79R:	Plant pathologist.	H.E. Stevens.
p. 80R-98R:	Associate plant pathologist.	C.D. Sherbakoff.
p. 99R-112R:	Laboratory assistant in plant pathology.	J. Matz.
1917, p. 35R-51R:	Plant physiologist.	B.F. Floyd.
	Entomologist.	J.R. Watson.
	Control of nematodes, p. 53R-58R.	
p. 66R-75R:	Plant pathologist.	H.E. Stevens.
p. 76R-86R:	Associate plant pathologist.	C.D. Sherbakoff.
p. 87R-94R:	Laboratory assistant in plant pathology.	J. Matz.
1918:	Entomologist.	J.R. Watson.
	Control of root-knot nematodes, p. 56R-58R.	
p. 62R-67R:	Plant pathologist.	H.E. Stevens.
p. 68R-78R:	Associate plant pathologist.	C.D. Sherbakoff.

BULLETIN.

No. 1-158. 1888-1920.

Number.

2.	[Report of experiments made by the several sections.]	1888.
	Ashmead, W.H. Red rust on wheat, p. 12-13.	
	_____ The peach root-knot (<i>Anguillula</i> ? species), p. 19-21.	
	Curtiss, A.H. Report on "foot-rot" and "scab" of citrus trees, and on the prevention of orange "rust", p. 27-42.	
18. Rolfs, P.H.	Grasses: forage plants; tomato blight.	1892.
	Tomato blight - some hints, p. 10.	
21. Curtiss, A.H.	The tomato and some of its diseases.	1893.
23.	Insecticides and fungicides.	1893.
47. Rolfs, P. H.	Diseases of the tomato.	1898. (Revision of Bul. 21).
50. Hume, H. H.	Pineapple fertilizers.	1899.
	Diseases, p. 97-99, 102-103.	
53. _____	Some citrus troubles.	1900.
74. _____	Anthracnose of the pomegranate.	1904.
75. _____	Potato diseases.	1904.

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BULLETIN (Cont.)

Number.

76. Gossard, H.A. & Hume, H.H. Insecticides and fungicides. 1904.
Fungous diseases and their control, p. 234-242.
91. Rolfs, P.H. Tomato diseases. 1907. (Revision of Buls. 21 and 47)
98. Fawcett, H.S. Scaly bark of citrus. (A preliminary report.) 1909.
106. Scaly bark or nail-head rust of citrus. (*Cladosporium* *herbárium*, var. *citricolum*.) 1909.
(In part same as Rept. 1909, p. xlvi-lvii.)
107. Stem-end rot of citrus fruits. 1911. (P. 8-10,
same as Rept. 1910, p. xlvii-xlii.)
108. Rolfs, P.H. et al Diseases of citrus fruits. 1911.
109. Fawcett, H.S. Citrus scab. 1912.
111. Floyd, B.F. & Stevens, H.E. Melanose and stem-end rot. (*Phomopsis citri* Fawcett). 1912. (See Bul. 145.)
112. Watson, J.R. Tomato insects, root-knot and "white mold". 1912.
(Supersedes Buls. 47 and 91. See Bul. 125.)
116. Burger, O. F. Lettuce drop. 1913.
117. Rolfs, P. H. Tomato diseases. 1913. (With Bul. 112, supersedes Buls. 47 and 91.)
121. Burger, O. F. Cucumber rot. 1914.
122. Stevens, H.E. Citrus canker. A preliminary bulletin. 1914.
124. Berger, E.W., et al Citrus canker. II. 1914. (See Bul. 128.)
125. Watson, J.R. Tomato insects. Root-knot and "white mold". 1914.
(Revision of Bul. 112.)
128. Stevens, H. E. Citrus canker. III. 1915. (See Bul. 124.)
136. Watson, J.R. Control of root-knot by calcium cyanamide and other means. 1917. (In part same as Report, 1916, p. 65R-63R.)
137. Floyd, B. F. Some cases of injury to citrus trees apparently induced by ground limestone. 1917. (Also in Rept. 1916, p. 38R-50R, with exception of introduction and final paragraphs.)
139. Sherbakoff, C.D. Some important diseases of truck crops in Florida. 1917.
140. Floyd, B.F. Dieback, or exanthema of citrus trees. 1917.
145. Stevens, H.E. Melanose II. 1918. (See Bul. 111.)
146. Sherbakoff, C.D. Tomato diseases. 1918.
147. Matz, J. Diseases and insect pests of the pecan. 1918.
150. Stevens, H.E. Florida citrus diseases. 1918.

1901-1920.
No. 1-322.

1. Hume, H. H. Directions for preparation of Bordeaux mixture. 1901.
10. Plants affected by root-knot. 1901.
18. Canteloupe blight. 1902.

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PRESS BULLETIN (Cont.)

Number.

55. Rolfs, F. M. Potato blight and its remedy. 1905.
60. Fall dropping of citrus fruit. 1906.
61. Fawcett, H.S. Tomato seed-beds-spraying off. 1906.
63. Stuckey, H.P. "Black root" or wilt disease of cotton. 1907.
69. Roselle mildew. 1907.
84. Rolfs, P. H. Citrus bloom dropping. 1908.
90. Floyd, B. F. Treatment of citrus die-back. 1908.
93. Symptoms of citrus die-back. 1908.
96. Rolfs, P.H. Citrus foot-rot. 1908.
101. Fawcett, H.S. Cabbage black rot. 1908.
104. Floyd, B. F. Yellow spotting of citrus leaves. 1908.
123. Fawcett, H.S. Smoky fungus of oranges. 1909,
128. Floyd, B. F. How fertilizers injure citrus trees. 1909.
131. Fawcett, H. S. Stem-end rot of citrus fruits. 1909.
133. Winter pruning for withertip. 1909.
134. Gummosis of citrus trees. 1909.
141. Stem-end rot of citrus fruits. II. 1910.
142. Floyd, B. F. Melanose. 1910.
147. Fawcett, H.S. Scaly bark. 1910.
150. Red rot of sugar cane. 1910.
151. Summer pruning for withertip. 1910.
154. Stem-end rot of citrus fruits. III. 1910.
157. Stem-end rot of citrus fruits. IV. 1910. (See
Press Bul. 131, 141, 154).
164. Pruning for stem-end rot of citrus. 1911.
165. Floyd, B. F. Treatment of melanose. 1911.
180. Fawcett, H. S. Pruning for withertip and stem-end rot of citrus.
1912.
195. Stevens, H.E. Stem-end rot and scale insects. 1912.
199. Melanose and stem-end rot. 1912.
200. Burger, O. F. Lettuce rot. 1912.
207. Tomato rust. 1913.
221. Cucumber and cantaloupe blight. 1914.
222. Stevens, H.E. Melanose. 1914.
225. Citrus canker and picking implements. 1914.
248. Watson, J.R. Host plants of the root-knot nematodes. 1916.
255. Rolfs, P. H. Roselle mildew. 1916.
258. Sherbakoff, C.D. Irish potato seed. [Directions for procuring disease
free seed]. 1916.
262. Rolfs, P. H. Citrus trees damaged by cold. 1917.
263. Care of citrus trees after freezing temperatures.
1917.
266. Sherbakoff, C.D. Cucumber and cantaloupe downy mildew. 1917.
267. Tomato leaf and fruit spots. 1917.
268. Stevens, H.E. Stem end rot and scale insects. 1917.
269. Gummosis of citrus trees. 1917.
273. Sherbakoff, C.D. Lettuce black rot. 1917.
276. Stevens, H.E. Control of watermelon anthracnose. 1917.
279. Citrus foot rot. 1917.
289. Avocado scab. 1918.

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PRESS BULLETIN (Cont.)

Number.

292. Watson, J. R. Summer fallow for root-knot-infested land. 1918.
296. Stevens, H.E. Gray mold of castor beans. 1918.
300. Citrus fruit rots. 1918.
316. Sherbakoff, C.D. Eggplant diseases and their control. 1919.

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ANNUAL REPORT.

[1st]-32. 1888-1919.

These are mainly short administrative reports.

Report.

[1st], 1888-

11th, 1893: No pathology.

12th, 1899,

p. 121-145: Biologist and horticulturist. A.L. Quaintance.
Keeping qualities of grapes, p. 128-136.

13th, 1900,

p. 305-371: Biologist and horticulturist.

[Plant diseases in 1900], p. 351-361.

14th, 1901-

24th, 1911: No pathology.

25th, 1912,

p. 302:

[Table showing control of cotton anthracnose by selection.]
No pathology.

27th, 1914,

p. 267:

[Director's summary of botanical work.]

28th, 1915,

p. 10-15-16:

[Director's summary of pathological work.]

29th, 1916,

p. 13:

Botany and plant pathology. B. B. Higgins.

p. 16-18:

Horticulture. H. P. Stuckey.

p. 21-27:

Higgins, B.B. Notes on some diseases of collards.

30th/31st,

1917/18,

p. 11-14, 15:

[Director's summary of pathological work.]

32nd, 1919,

p. 12-15:

[Director's summary of pathological work.]

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BULLETIN.

No. 1-135. 1888-1919.

Number.

15. Speth, G. Culture of small fruits. 1891.
Diseases of small fruits, p. 128.

17. Irish potatoes, sweet potatoes, tomatoes, forage plants. 1892.
[Diseases of sweet potato], p. 176-177.
[Tomato rot], p. 182-187.

28. Starnes, H.N. Grape culture. 1895.
Diseases, p. 280-285.

29. Irish potatoes. 1895.
Affections and remedies, p. 310-315, 317, 349.

33. The cultivated blackberries and dewberries. 1896.
Fungous affections, p. 493-501.

42. Some peach notes. 1898.
Maladies, p. 220-226.
Spraying tests with peach foliage, p. 243-250a.

44. Redding, R.J. Wheat and oats, rye and barley. 1899.
How to prevent smut in wheat, p. 7-8.

50. Quaintance, A.L. The brown rot of peaches, plums and other fruits. (*Morilia fructigena* Persoon). 1900.

53. Second report on grapes. 1901.
Tab. I, Synopsis of varieties [showing susceptibility to black rot], p. 40-50.

57. Fulton, S.H. Cantaloupe culture in Georgia. 1902.
Diseases, p. 185-190.

67. Starnes, H.N. The plum in Georgia. 1904.
Fungoid and bacterial affections, p. 255-261.

68. Japan and hybrid plums. 1905.
Maladies. (Wilt and crown gall), p. 22-25.

82. McHatton, T.H. Sugar corn and tomatoes. 1908.
Corn smut (*Ustilago maydis*), p. 191-193. (Also percentage of smut given under results of experiments with varieties.)

85. DeLoach, R.J.H. Some studies on the *Colletotrichum gossypii*. 1909.

89. Kimbrough, J.M. Cotton culture. 1909.
Variety test of cotton. - Anthracnose record, p. 69.
Muriate of potash vs. kainit as a source of potash and incidentally as rust control, p. 75-77. Cotton wilt, p. 80-84.

96. Stuckey, H.P. & Temple, J.C. Tomatoes. 1911.
II. Blossom-end rot, p. 69-91.

98. Kimbrough, J.M. Cotton culture. 1911.
Muriate of potash vs. kainit for three years [as a source of potash and incidentally as rust control], p. 119-120. Anthracnose, p. 121.

100. Cotton culture. 1912.
Muriate of potash vs. kainit, p. 242-43.

106. Stuckey, H.P. Vegetable gariening. 1914.
Higgins, H.B. & Stuckey, H.P. Combatting insect pests and fungous diseases of garden plants, p. 84-91.

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BULLETIN (Cont.)

Number.

112. Stuckey, H.P. Tomatoes. 1915.
Blossom-end rot, p. 228-45. (Essentially same as in Bul. 98, p. 69-91.)
Fungus diseases of tomatoes, p. 246.
118. Higgins, B.B. Plum wilt, its nature and cause. 1916.
121. Stuckey, H.P. Transmission of resistance and susceptibility to blossom-end rot in tomatoes. 1916.
123. _____ & Higgins, B.B. Irish potato spraying. 1916.
127. Higgins, B.B. Gum formation with special reference to cankers and decays of woody plants. 1919.
135. Stuckey, H.P. & Higgins, B.B. Spraying peaches. 1919.
138. McClintock, J.A. Tomato wilt. 1920.

CIRCULAR

No. 4-76. 1894-1917.
(No. 1-60 entitled Press bulletins.)

1-3. No record at station.
38. Starnes, H. N. Notes on spraying. 1903.
43. _____ Two orchard maladies (Brown rot and peach borer). 1903.
48. _____ Pear blight. 1905.
49. _____ Notes on spraying. 1905.
60. _____ Crown gall, its menace to American pomology. 1907.
(Erroneously numbered 53, and dated 1906.)
62. _____ & Monroe, J.F. Plant maladies and their control. 1907.
Starnes, H.N. Pear blight. n.d. (Unnumbered).

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Ga-2. Higgins, B.B. A *Colletotrichum* leafspot of turnips. 1917.

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PRESS BULLETIN [SECOND SERIES]

No. 1-85. 1919-1920.

Number.

9. McClintock, J.A. Tomato wilt control. [1919].
12. Stuckey, H.P. Resistance of peach trees to the nematode [1919]
13. McClintock, J.A. Wilt resistant tomato seed. [1919]
16. Orange rust of blackberries. [1919]
18. Stuckey, H.P. Irrigate to control blossom-end rot of tomatoes.
[1919]
21. McClintock, J.A. Is your wheat diseased? [1919]
27. Watermelon diseases. [1919]
35. The resistance of pear varieties to blight. [1919]
39. Higgins, B.B. Storage rots of sweet potatoes. [1919]
41. Herron, W. C. Formalin treatment of small grains for smut
prevention. [1919]
47. McClintock, J.A. The control of the root-knot nematode on the
peach. [1919]
56. Herron, W.C. Seed treatment of Irish potatoes. 1920.
61. Inspect pear trees for fire-blight. 1920.
63. Higgins, B.B. Sweet potato "black rot" in the field. 1920.
65. McClintock, J.A. Two peach troubles observed in Georgia. 1920.
68. Stuckey, H.P. The relation of brown rot infection and the time
of ripening of Mayflower peaches to fertilizers
applied. 1920.
71. Fertilizer injury to young peach trees when
set. 1920.
74. Higgins, B.B. Brown rot cankers on peach trees. 1920.
80. McClintock, J.A. Handling and grading of sweet potatoes. 1920.
84. Higgins, B.B. A serious disease of cabbage and collards, 1920.

IDAHO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1893-1919.

The reports are general summaries of work accomplished.

Report.

1893: No pathology.

1894: Report of director. C.P. Fox.
Paris fruit tree disease, p. 7-9.

p. 20-21: Department of botany. L.F. Henderson.

1895-1896: No pathology.

[1897/98],

p. 151-62: Department of botany. (Bul. 15)

1898/1900,

p. 8-9: Department of botany. (Bul. 29)

IDAHO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

1901,	p.14-16: Department of botany.	L.F. Henderson.
1902,	p.11-12: Botanical department.	
1903,	p.9-14: Department of botany.	
1904,	p.11-26: Department of horticulture. [Plant diseases], p.11-13, 18-22.	L.B. Judson.
	p.27-32: Department of botany.	L.F. Henderson.
1905,	p.14-22: Incomplete experiments in 1905.	
1906:	[Department of entomology and plant pathology] Experiments for western blight continued, p.25-28.	
1907:	No pathology.	
1908:	Department of horticulture. Cooperative experiments in spraying, p.12,13.	J.R. Shinn.
1909-1914:	No reports issued.	
1915:	Department of horticulture. (Bul. 84) [Use of lime sulphur as a summer spray for apple scab], p. 26-27.	C.C. Vincent.
	Jerome substation: Disease investigations. O.A. Pratt. [Potato diseases], p. 44.	
1916,	p.10-11: Department of botany. (Bul. 92)	M.A. Willis.
	p.24-28: Department of horticulture.	C.C. Vincent et al
	p.55-57: Jerome sub-station: Potato disease investigations, p. 57.	
1917, p.19:	Department of botany. (Bul.104)	M.A. Willis.
1918:	No pathology. (Bul. 113)	
1919, p.8:	Relation of soil moisture to bunt infection. (In Director's report). (Bul. 119).	

BULLETIN.

No. 1-121. 1892-1920.

Number.

4. Fox, C.P. Methods of preventing smut in wheat and oats, p.2-6.
1895.
11. Henderson, L.F. Smuts and rusts of grains in Idaho, and the most
approved methods of dealing with them. 1898.
15. Report 1897/8. See p. 36.
20. Henderson, L.F. Apple scab in the Potlatch. 1899.
29. Report 1898/1900. See p. 36.
31. Henderson, L.F. Some spraying experiments for 1901. 1902.
34. Huntley, F.A. Tomato culture. 1902.
Tomato blight, p. 116-117.
39. Henderson, L.F. Some experiments with fungus diseases in 1903. 1904.

IDAHO AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

52. Henderson, L.F. Potato scab. 1906.
53. _____ Experiments with wheat and oats for smut. 1906.
55. _____ Mixed sprays for apple scab and codling moth. 1907.
56. _____ The Rex spray and other lime and sulphur com-
pounds. 1907.
61. _____ Spraying experiments, 1907. 1908.
76. Wicks, W. H. Tomato culture in Idaho. 1913.
[Diseases], p. 43.
79. Potato culture. 1914.
Temple, C.E. Diseases and insect pests of the
potato, p. 40-67.
84. Report 1915. See p. 37.
85. Vincent, C.C. The use of lime sulphur as a summer spray for
apple scab. 1915.
92. Report 1916. See p. 37.
99. Taylor, E.P. &
Downing, G.J. Experiments in the irrigation of apple orchards.
1917.
Correlation of irrigation
with the health of the trees, p. 16-17.
Storage [troubles], p. 22-23.
104. Report 1917. See p. 37.
119. Report 1919. See p. 37.

CIRCULAR.

No. 1-10. 1915-1920.

1. Vincent, C.C. & Spraying calendar. 1915.
Edmundson, W.C.
6. Vincent, C.C. & Idaho spray calendar. 1918.
Willis, M.A.

PRESS BULLETIN.
1894(?) - 1908.

Some unnumbered, and several series of numbering used.

3. Henderson, L.F. Apple scab.
Powdery mildew of the grape. n.d.
n.s. 3. _____ Fire blight, a bacterial disease of the pear and
the apple. 1904.
n.s. 9. _____ Potato scab. 1907.
n.s. 12. _____ Spray calendar. 1908.

IDAHO AGRICULTURAL EXPERIMENT STATION.

SPECIAL BULLETIN [UNNUMBERED] 1897, 1907.

Clinton, G. P. Smuts and their prevention. 1897.
Henderson, L.F. Insecticides and fungicides, a compilation of the
most approved methods. 1907.

ILLINOIS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33rd. 1888-1920.

These are short administrative reports by the director, with occasional brief notes on the work in plant pathology, in some of the later reports.

Report.

1st, 1888- 2nd, 1889: No pathology.
3d, 1890, p. 7-8: Bul. 6, abstracted.
4th, 1891-14th, 1901: No pathology.
15th, 1902, p. 6-7: [Spraying for bitter rot.]
16th, 1903-26th, 1913: No pathology.
27th, 1914, p. 12-13: [Carnation disease.]
28th, 1915: No pathology.
29th, 1916: [Under principal lines of work.]
30th, 1917, p. 17-18: [Brief notes.]
31st, 1918, p. 17-18: [Brief notes.]
32nd, 1919, p. 16, 17: [Brief notes.]
33rd, 1920, p. 21: [Brief notes.]

BULLETIN.

No. 1-230. 1888-1920.

Number.

6. Burrill, T.J. A bacterial disease of corn. 1889. (Abstr. in 3d
Rept., p. 7-8.)
15. _____ & Use of fungicides upon the apple, the potato, and
McCluer, G.W. the grape, p. 489-496. 1891.
28. McCleur, G.W. Grapes. 1893.
A grape disease, p. 268-270.

ILLINOIS AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

29. Clinton, G.P. Orange rust in raspberries and blackberries, p. 273-300. 1893.

40. McGluer, G.W. Potatoes, experiments of 1892-3-4. 1895.

Clinton, G.P. Fungous diseases of the potato, p. 136-145.

47. Clinton, G.P. Broom-corn smut. 1897.

54. Blair, J.C. Spraying apple trees, with special reference to apple scab fungus. 1899.

57. Clinton, G.P. The smuts of Illinois' agricultural plants. 1900.

59. Blair, J.C. Orchard management. 1900.

Spraying, p. 388-395.

64. Shamel, A.D. Treatment of oats for smut. 1901.

67. Clinton, G.P. Apple scab. 1901.

68. Stubenrauch, A.V. Important details of spraying. 1902.

69. Clinton, G.P. Apple rots in Illinois. 1902.

70. Hasselbring, H. Canker of apple trees. 1902.

77. Burrill, T.J. & Blair, J.C. Bitter rot of apples. 1902.

106. Crandall, C.S. Spraying apples. Relative merits of liquid and dust applications. 1906.

117. Blair, J.C. Bitter rot of apples. Horticultural investigations. 1907.

118. Burrill, T.J. Bitter rot of apples. Botanical investigations. 1907.

133. & Barrett, J.T. Ear rots of corn. 1909.

135. Crandall, C.S. Bordeaux mixture. 1909.

144. Lloyd, J.W. & Brooks, I.S. Growing tomatoes for early market. 1910.

Spraying for the control of leaf spot, p. 78-82.

Tomato wilt, p. 82-83.

154. Forbes, S.A. What is the matter with the elms in Illinois? 1912.

185. Pickett, B.S. et al Field experiments in spraying apple orchards. 1916.

189. Peltier, G.L. Parasitic Rhizoctonias in America. 1916.

206. Pickett, B.S. et al Field experiments in spraying apple orchards in 1913 and 1914. 1918.

213. Stevens, F.L. Two Illinois rhubarb diseases. 1919.

217. Gunderson, A.J. An apple canker due to Cytospora. 1919.

218. Gunderson, A.J. The pruning of winter-injured peach trees. 1919.

220. Stevens, F.L. & True, E.Y. Black spot of onion sets. 1919.

221. Peltier, G.L. Snapdragon rust. 1919.

222. Gunderson, A.J. Field experiments in spraying apple orchards for the control of apple blotch. 1919.

223. Peltier, G.L. Carnation stem rot and its control. 1919.

229. Anderson, H.W. Dendrophoma leaf blight of strawberry. 1920.

ILLINOIS AGRICULTURAL EXPERIMENT STATION.

CIRCULAR
No. 1-245. 1897-1920.

Number.

8. Blair, J.C. Spraying fruit trees. 1898.
20. Treatment of oats for smut. 1900.
25. Shamel, A.D. Inquiry concerning smut of oats. 1900.
29. Treatment of oats for smut. 1900.
31. Inquiry concerning amount of loss from smut of wheat in Illinois. 1901.
32. Inquiry concerning amount of smut in oats. 1901.
36. Forbes, S.A. On the principal nursery pests likely to be distributed in trade. 1901.
37. Burrill, T.J. & Blair, J.C. Apple fruit rots. 1901.
39. Stubenrauch, A.V. & Lloyd, J.W. Directions and formulas for spraying. 1902.
43. Blair, J.C. & Stubenrauch, A.V. Field work with bitter rot during 1901. 1902.
54. Shamel, A.D. Inquiry concerning amount of loss from smut of wheat in Illinois. 1902.
55. Inquiry concerning smut of oats. 1902.
58. Burrill, T.J. & Blair, J.C. Prevention of bitter rot. 1902.
67. Fruit and orchard investigations. 1903.
Spraying for bitter rot, p. 10-15; Fruit diseases, p. 15-18; Dust and liquid spray observations; power spraying, p. 23-25.
Treatment of oats for smut. 1905.
Fruit and orchard investigations. 1907.
Bitter rot [and other diseases], p. 14-33.
Spraying, p. 40-45, 54-56.
Control of bitter rot of apples. 1907.
Dry rot of corn. 1908.
112. 117. Burrill, T.J. & Barrett, J.T. Spraying apple orchards for insects and fungi. 1908.
120. Pickett, B.S. 136. Directions for making spray mixtures. 1910.
137. Howe, R.B. Results of spraying experiments, 1909. 1910.
156. Collier, J.S. Rice blight. 1912.
159. Watkins, O.S. Tests of lime sulfur, Bordeaux mixture and other sprays. 1912.
160. Some common spray mixtures. 1912.
ed. 2. rev. 1913.
ed. 3. rev. 1915.
172. Pickett, B.S. The blight of apples, pears and quinces. 1914.
183. Rees, C.C. & Mcfarlane, W. A bibliography of recent literature concerning plant-disease prevention, p. 1-78.
Lantz, C.W. A bibliography of non-parasitic diseases of plants, p. 79-111. 1915.
187. Peltier, G.L. A serious disease of cultivated perennials caused by Sclerotium Rolfsii. 1916.
194. Gunderson, A.J. & Brock, W.S. Field experiments in spraying apple orchards in 1916. 1917.
212. Directions for spraying fruit trees in Illinois. 1918.

ILLINOIS AGRICULTURAL EXPERIMENT STATION.

CIRCULAR (Cont.)

Number.

228. Burlison, W.L. Smuts of small grains. 1912.
240. _____ & Treating oats for smut. 1920.
Stark, R.W.
241. Anderson, H.W. Diseases of Illinois fruits. 1920.
242. Reed, G.M. & Flag smut and take-all. 1920.
Dungan, G.H.
243. Holbert, J.R. Control of corn rots by seed selection. 1920.

[UNNUMBERED CIRCULAR.]

Smuts and their prevention. 1897.

INDIANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33rd. 1888-1920.

Report.

1st, 1888: No pathology.
2nd, 1889, p.30: Bul. 26 and 28 abstracted.
3d, 1890, p.8-11: Botanical department. J.C. Arthur.
4th, 1891, p.23-28: Botanical department.
5th, 1892, p.xvii-xix: Botanical department.
6th, 1893, p.18-21: Botanical department.
7th, 1894, p.22-26: Botanical department.
[Plant diseases], p. 23-25.
8th, 1895, p.21-28: Botanical department.
[Plant diseases], p. 23-26.
9th, 1896, p.28-37: Botanical department.
[Plant diseases], p. 29-31.
10th, 1897, p.25-34: Botanical department.
[Plant diseases], p. 25-30.
11th, 1898, p.17-18: Botanical department.
12th, 1899, p.84-135: Arthur, J.C. & Stuart, W.H. Corn smut.
13th, 1900, p.10-36: [Articles by Arthur and Stuart on plant diseases.]
14th, 1901: No pathology.

INDIANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

15th, 1903, p. 21:	Botanist. (No pathology.)	J.C. Arthur.
16th, 1903, p. 16-17:	Botanical department.	
17th, 1904, p. 18-20:	Botanical department. [Plant diseases], p. 19.	
18th, 1905, p. 26-28:	Botanical department.	
19th, 1906, p. 38-40:	Botanical department. [Plant diseases], p. 38-39.	
20th, 1907:	Horticultural department. [Watermelon & cantaloupe diseases], p. 15-16.	J. Troop.
21st, 1908:	Botanical department. Report of Director.	J.C. Arthur.
p. 22-24:	Formalin for oat smut, p. 17-18.	
p. 27-38:	Horticultural department. [Spraying meloïd], p. 35-37.	J. Troop.
p. 49-51:	Botanical department.	J.C. Arthur.
22nd, 1909, p. 31-32:	Botanical department.	
	Horticultural department.	J. Troop & C.G. Woodbury.
	[Melon wilt, and rust], p. 42, 44.	J.C. Arthur.
23d, 1910, p. 34-36:	Botanical department. Plant diseases, p. 34-35.	J. Troop & C.G. Woodbury.
	Horticultural department. Melon spraying, p. 55.	J.C. Arthur.
24th, 1911, p. 25-27:	Botanical department. [Plant diseases], p. 25-26.	J. Troop & C.G. Woodbury.
25th, 1912, p. 35-41:	Botanical department.	J.C. Arthur.
26th, 1913, p. 30-37:	Botanical department. Plant diseases, p. 33-34.	
27th, 1914, p. 31-36:	Botanical department. Plant diseases, p. 32-33.	
28th, 1915, p. 28-33:	Botanical department. Plant diseases, p. 29-31.	
	Horticultural department. Cucumber disease control project, p. 51.	C.G. Woodbury.
29th, 1916, p. 23-28:	Botanical department. Plant diseases, p. 24-28.	H.S. Jackson.
	Horticultural department.	C.G. Woodbury.
30th, 1917, p. 22-26:	Cucumber disease control project, p. 47.	H.S. Jackson.
	Botanical department.	
	Plant diseases, p. 22-24.	C.G. Woodbury.
	Horticultural department.	
	Cucumber disease control project, p. 43-44.	
31st, 1918, p. 20-24:	Botany department.	H.S. Jackson.
	Horticulture.	L. Greene.
	Dusting versus spraying, p. 46.	
	Winter injury, p. 46.	
32nd, 1919, p. 19-25:	Botany (In Director's Rept.)	[H.S. Jackson.]
p. 85:	Abstract of Bul. 234.	
p. 90:	Abstract of Circ. 87.	
	Horticulture (In Director's Rept.)	[L. Greene.]
	Dusting experiment, p. 47.	

INDIANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

33d, 1920, p. 13-17: Botany. (In Director's Rept.) [H.S. Jackson]
Horticulture. (In Director's Rept.) [L. Greene]
Potato spraying, p. 29.

BULLETIN.

No. 1-250. 1888-1920.

Number.

15. Arthur, J.C. Concerning the potato tuber. 1888.
[Scab], p. 9-11.

19. _____ Spotted peaches and cucumbers. 1889.

26. Bolley, H.L. Wheat rust. 1889. (Abstr. in 2nd Rept., p. 30.)

28. Arthur, J.C. Smut of wheat and oats. 1889. (Abstr. in 2nd Rept., p. 30.)

32. _____ Treatment of smut in wheat, p. 3-9. 1890.

35. _____ Loose smut of oats. 1891.

36. _____ Wheat scab, p. 129-132. 1891.

38. Troop, J. Experiments with small fruits and vegetables. 1892.
Treatment of powdery mildew and black rot [of grapes], p. 17-18.

39. Arthur, J.C. & Golden, K.E. Diseases of the sugar beet root, p. 54-62. 1892.

41. Latta, W.C. Field experiments with wheat, p. 84-100. 1892.
Treatment of seed wheat to prevent loose smut and "bunt", p. 95-97.

43. Huston, H.A. The sugar beet in Indiana, p. 16-20. 1893.
Diseases, p. 18-19; (Table of varieties showing percentage of disease, 1892.)

53. Troop, J. Horticulture and entomology. 1894.
Potato scab, p. 120-122.

55. Huston, H.A. Sugar beets, p. 46-54. 1895.
Bacterial disease: effect on sugar content, p. 49-50.

56. Arthur, J.C. Potato scab and its prevention, p. 69-80. 1895.

59. _____ & Bolley, H.L. Bacteriosis of carnations. 1896.

65. Arthur, J.C. Formalin for prevention of potato scab. 1897.

69. Troop, J. Insecticides, fungicides and spraying. 1898.

77. Arthur, J.C. Formalin for grain and potatoes, p. 38-44. 1899.

78. Troop, J. The San Jose and other scale insects, and the Indiana nursery inspection law. 1899.
Law [against insects and diseases], p. 49-52.

85. Arthur, J.C. Chrysanthemum rust. 1900.

87. Stuart, W. Formalin as a preventive of oat smut. 1901.

103. Arthur, J.C. Rapid method of removing smut from seed oats. 1905.

111. Kern, F.D. Indiana plant diseases in 1905. 1906.

INDIANA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

118. Troop, J. & Woodbury, C.G. How to control the San Jose scale and other orchard pests. 1907.
119. Kern, F.D. Indiana plant diseases in 1906. 1907.
123. Troop, J. & Woodbury, C.G. Commercial melon growing. 1908.
Insects and diseases, p. 17-23.
135. _____ Growing better gems. 1909.
Spraying [for rust or blight], p. 3-7.
154. Woodbury, C.G. & Wellington, J.W. Orchard heating. 1911.
165. Boyle, J. G. Tomato investigations. 1913.
Spraying for the control of leaf spot, p. 823-824.
194. Woodbury, C.G., et al. The Indiana farm orchard. Operating costs and methods. 1916.
Spraying, p. 26-43.
224. Hoffer, G.N. & Holbert, J.R. Selection of disease-free seed corn. 1918.
(Abstr. in 32nd Rept., p. 85.)
225. Wiancko, A.T. & Cromer, C.O. Spring small grains in Indiana. 1919.
[Oats; seed diseases and treatment], p. 8-11.
233. Hoffer, G.N. Disease-free sweet corn seed. 1920.
239. Cerner, S.D. & Fergus, E.N. Borax injury to corn. 1920.

CIRCULAR.

No. 1-98. 1906-1920.

9. Troop, J. & Woodbury, C.G. Commercial fruit growing. 1907.
Spraying, p. 2-6.
21. Woodbury, C.G. The loose smut of oats and stinking smut of wheat and their prevention. 1910.
30. _____ & Richards, M.W. Commercial apple growing. 1911.
Spraying, p. 36-101.
34. Richards, M.W. Orchard spray calendar. 1912.
68. Reed, H.J. Melon growing in Indiana. 1917.
Insects and diseases, p. 12-16.
69. Oskamp, Joseph Peach growing in Indiana. 1917.
[Diseases and spraying], p. 16-24.
70. Jackson, H.S. Apple diseases in Indiana with spray schedule. 1917.
71. _____ & Osner, G.A. Potato diseases in Indiana. 1917.
87. Oskamp, J. Winter injury of fruit trees. 1918. (Abstr. in 32nd Rept., p. 90.)

INDIANA AGRICULTURAL EXPERIMENT STATION.

NEWSPAPER BULLETIN.

No. 1-220. 1891-1917.

Number.

1. Plumb, C.S. How to prevent smut in wheat. 1891.
23. Troop, J. Spraying with insecticides and fungicides. 1896.
24. Arthur, J.C. Prevention of potato scab. 1896.
43. _____ New remedy for potato scab. 1897.
62. _____ Scab in heads of wheat. 1898.
65. Stuart, W. Loose smut of wheat. 1898.
69. _____ Bacterial rot of cabbage. 1898.
74. Troop, J. Points concerning the nursery inspection law. 1899.
78. _____ Causes for inferior quality of muskmelons, and remedy. 1899.
80. Stuart, W. Asparagus rust: a serious menace to asparagus culture. 1899.
90. Troop, J. Black knot of the plum and cherry. 1901.
125. Arthur, J.C. Treatment for oat smut. 1906.
160. Frier, G.M. Dodder in relation to farm crops. I. 1910.
161. _____ & Henry, H.H. Dodder in relation to farm crops. II. 1910.
163. _____ Dodder in relation to farm crops. III. 1910.
173. Johnson, A.G. What about oat smut this year? 1911.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Ind.-2. Jackson, H.S. An Asiatic species of *Gymnosporangium* established in Oregon. 1916.

Ind.-3. Osner, G.A. *Stemphylium* leafspot of cucumbers. 1918.

IOWA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1888-1919.

The reports of this station were very irregularly issued, and contain little of pathological interest.

Report.

1st-3d, 1888-90: No pathology.

(a) 1890/1, p. 20-21: Botanical section. L. H. Pammel.

1892/3, p. 45-46: [Work in botany.]

1894/5, p. 32-37: Botanical section.
[Plant diseases], p. 36.

1896/7, p. 125: Botanical section.

1896/7, p. 153-75: (b) Department of botany.

1896/7, p. 155-60: Combs, R. Alfalfa leaf spot disease.- *Pseudopeziza medicaginis* (Lib. Sacc.). (Abstr. in Bul. 36, p. 858-59.)

(a) 1898/9-1906/8: No pathology.

1909-1914: No reports issued.

1915: No pathology.

1916, p. 28-29, 32: [Brief notes] (In Director's report.)

1917, p. 32-33: [Brief notes] (In Director's report.)

1918, p. 24-29,
32-37: Botany.
[Plant diseases] (In Director's report.)

1919, p. 22-26,
33-35: Botany.
[Plant diseases] (In Director's report.)

(a) Reports from 1890-1908 issued in 4th - 23rd Biennial report of the Iowa State College.

(b) This is an historical account of the Department of botany of the State agricultural college, from 1870 to 1897, but as investigation-
al work was done, it is included here.

IOWA AGRICULTURAL EXPERIMENT STATION.

BULLETIN 1883-1888 (JNNUMBERED). 1884-1888.

These bulletins, issued by the state agricultural college previous to the establishment of the experiment station, have been included, because of their obvious value. The annual reports of the State agricultural college, for the period previous to the establishment of the experiment station have not been examined.

1884. Bessey, C.E. Bulletin issued by the Department of botany. 1884.
[Notes on smuts of wheat and corn; ergot.],
p. 118-132.
Arthur, J.C. Preliminary list of Iowa Uredineae,
p. 151-171.
Arthur, J.C. Memorandum of Iowa Ustilagineae,
p. 172-174.

1886. Halsted, B.D. Bulletin from the Botanical department. 1887.
[Notes on various fungi and diseases], p. 19-
21, 36, 53-64.
Hitchcock, A.S. A partial list of Iowa powdery
mildew, p. 64-66.

1888. _____ Bulletin from the Botanical department. 1888.
[Notes on fungi and diseases], p. 89-118.

BULLETIN.

No. 1-193. 1888-1920.

Number.

2. Gillette, C.P. Arsenic experiments [injury to foliage], p. 30-
35. 1888.
3. _____ & Some injurious fungi, p. 63-69. 1888..
Crozier, A.A.
10. Speer, R.P. Our rusted and blighted wheat, oats and barley in
1890, p. 391-400.
Gillette, C.P. Experiments with arsenites [injury to foliage],
p. 401-420. 1890.
13. Pammel, L.H. Treatment of fungus diseases, p. 31-71. 1891.
15. _____ Fungus diseases of sugar beet, p. 234-254. 1891.
16. _____ Experiments with fungicides, p. 315-329. 1892.
17. _____ Treatment of some fungus diseases.- Experiments
made in 1891, p. 419-443. 1892.
Osborn, H. Effects of spraying on plants and fruit...
p. 444-449. 1892.
18. Pammel, L.H. Diseases of plants common to Iowa cereals, p. 488-
505. 1892.
Budd, J. L. The apple trees and apple crop on the college farm
[Russian varieties practically disease-resistant],
p. 516-522. 1892.

IOWA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont'd.)

Number.

20. Osborn, H. & Pammel, L.H. Machinery and methods for spraying, p. 706-712. 1893.

Pammel, L.H. Experiments in the treatment of spot disease of the cherry, diseases of currants and potato blight, p. 716-720. 1893.

Stewart, F.C. Prevention of corn and oats smut, p. 721-728. 1893.

23. Pammel, L.H. Notes on a few common fungus diseases, p. 918-924. 1894.

24. Spraying to prevent oats and wheat rust, p. 985-987. 1894.

A third season's experiment in treating spot diseases of currants, p. 987-988. 1894.

Stewart, F.C. & Pammel, L.H. Experiments in treating oats with different chemicals and hot water, p. 988-990. 1894.

27. [Pammel, L.H.] Potato scab and its prevention, p. 120-129. 1895.

Bacteriosis of rutabaga. (*Bacillus campestris* n. sp.), p. 130-134.

30. & Carver, C.W. Treatment of currants and cherries to prevent spot diseases, p. 289-301. 1895.

36. Combs, R. The alfalfa leaf-spot disease. *Pseudopeziza medicaginis*. (Lib) Sacc., p. 858-859. 1897. (Abstr. of Rept. 1897, p. 155-160.)

42. Ball, C.R. Potato scab, p. 141-142. 1899.

44. Craig, J. Observations and suggestions on the root-killing of fruit trees. 1899.

53. Pammel, L.H. & Hodson, E.R. The asparagus rust in Iowa. 1900.

54. Pammel, L.H. et al. Grasses. 1901.

Diseases, p. 180-185, 250-344.

55. Atkinson, J. Field experiments. 1901.

Bacteriosis of the sugar beet, p. 383-384.

61. Pammel, L.H. Miscellaneous notes on fungus diseases of plants, p. 139-142. 1902.

84. Ogilvie, W.H. The cedar apple fungi and apple rust in Iowa. 1905.

The cedar apple fungi and apple rust in Iowa. Pop. ed. 1905.

89. Spraying calendar. 1907.

Beach, S.A. & Little, E.E. Horticulture section, p. 4-19.

Bowman, M.L. Farm crops section, p. 19-24.

104. Pammel, L.H. & King, C.M. Some plant diseases of 1908. 1909.

108. Beach, S.A. & Eustace, H.J. Cold storage for Iowa apples. 1909. (See Buls. 144 & 192). Apple scald, p. 406.

116. Pammel, L.H. et al. Two barley blights, with comparison of species of *Helminthosporium* upon cereals. 1910.

127. Beach, S.A. Spraying practice for orchard and garden. 1912.

129. Greene, L. Orchard heating. 1912.

131. Pammel, L.H. & King, C.M. Four new fungous diseases in Iowa. 1912.

IOWA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

144. Greene, L. Cold storage for Iowa grown apples. 1913. (See Buls. 108 & 192)
Apple scald, p. 370-373.

145. Bakke, A.L. The effect of city smoke on vegetation. 1913.

148. Maney, T.J. The effect of potato scab treatments on seed vitality. 1914.

148. The effect of potato scab treatment on seed vitality. Pop. ed. Bul. 148 and 149, p. 2. 1914.

149. Greene, L. & Maney, T.J. Better potato production methods for Iowa. 1914. Spraying, p. 65-70.

149. Better methods of potato production for Iowa. Pop. ed. 148 and 149, p. 3-8. 1914.

153. Greene, L. An apple orchard survey of Mills county. 1914. Spraying practices and diseases in Mills County orchards, p. 271-277.

163. Erwin, A.T. Late potato blight in Iowa. 1916.

171. Bordeaux spray for tip burn and early blight of potatoes. 1917.

192. Whitehouse, W.E. Cold storage for Iowa apples: Third progress report. 1919. Control of certain diseases of cold storage-apples, p. 179-207. (See Buls. 108 & 144.)

CIRCULAR.

1. Olin, W.H. No. 1-66. 1904, 1912-1920.

11. Hughes, H.D. & Taff, P.C. Smut and rust circular. 1904.

20. Greene, L. Smut in small grains with treatment for its eradication. 1913.

21. Pammel, L.H. et al Making old orchards profitable. 1915. (Abstract of Bul. 153)
Blister canker, p. 20-23.

35. Melhus, I.E. & Durrell, L.W. Corn stalk and corn root diseases in Iowa. 1915.

45. Hughes, H.D. The barberry bush and black stem rust of small grains. 1917.

46. Melhus, I.E. & Vogel, I.H. Improved method of fighting smut in oats. 1918.

57. Melhus, I.E. & Gilman, J.C. Cabbage diseases. [1918]

62. Melhus, I.E. & Durrell, L.W. An improved method of potato seed treatment. 1919.

Cereal rust of small grains. 1919.

IOWA AGRICULTURAL EXPERIMENT STATION.

PRESS BULLETIN.

No. 1-37. 1897-1919.
(1897-1904 unnumbered.)

Number.

Parmel, L.H. Potato rot fungus in Iowa. 1904.
22. Greene, L. Orchard heating. 1911.
24. Beach, S.A. Lime-sulfur. 1911.

RESEARCH BULLETIN.

No. 1-57. 1911-1920.

33. Parmel, L.H. Studies on a fusarium disease of corn and sorghum. (preliminary) 1916.
et al
49. Melhus, I.E. & Studies on the crown rust of oats. 1919.
Durrell, L.W.
50. Greene, L. & The effect of crown gall upon a young apple orchard. 1919.
Melhus, I.E.
57. Melhus, I.E. Relation of the barberry to stem rust in Iowa.
et al 1920.

[UNNUMBERED PUBLICATION.]

Curtiss, C.F. Spraying calendar for 1903.

KANSAS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.
1st-21st. 1888-1908. 1914-1919.

In the first and second reports of the botanical department, there are important illustrated articles. The later reports contain only abstracts of bulletins or short notes of progress.

Report.

1st, 1888, p.281-347:	Botanical department.	W.A.Kellerman & W.T.Swingle.
	Department of horticulture. The scalding of foliage by the application of arsenic, p.168-69.	E.A.Popencoe, et al
2nd, 1889, p.213-360;	Botanical department.	W.A.Kellerman & W.T.Swingle.
3d, 1890, p.vii: p.viii: p. x:	Abstract of Bul. 12. Abstract of Bul. 15. Botanical department. [Brief note]	
4th, p.vii-viii: p.viii:	Abstract of Bul. 21. Abstract of Bul. 22, and of Bul. 23.	
5th, 1892:	Botanical department. [Brief note]	
6th, 1893, p.vii: p.viii: p. x:	Abstract of Bul. 38. Abstract of Bul. 41. Botanical department. [Brief note]	
7th, 1894, p.vii: p.xii:	Abstract of Bul. 46. [Brief note]	
8th, 1895, p. x: p. xi:	Chemical department. [Brief note] Botanical department. [Brief note]	
9th, 1896, p.x:	Abstract of Bul. 62.	
10th, 1897- 17th, 1904:	No pathology.	
18th, 1905, p.13:	Botanical department. [Brief note]	
19th, 1906- 20th, 1907:	No pathology.	
21st, 1908:	Cooperative experiment station. [Formalin treatment for smut], p.xxiv-xxviii.	V.L.Cory.
1909-1913:	No report issued.	
1914, p.18:	Rust resistance in wheat. (In Director's rept.)	
1915, p.9: p.15:	Abstract of Bul. 203. Cereal disease resistance.(In Director's report.)	
1916, p.9: p.23:	Abstract of Bul. 210. Rust resistant strains of wheat. (In Director's rept.)	
1917, p.30-31:	Plant disease investigations. (In Director's rept.)	
1918, p.9-10: p.36-38:	Abstract of Circ. 63, Circ. 65, Circ. 66 and Circ. 68. Plant disease investigations. (In Director's rept.)	
1919, p.31-32: p.39-41:	Breeding for disease resistance (In Director's rept.) Diseases of plants. (In Director's rept.)	

KANSAS AGRICULTURAL EXPERIMENT STATION.

BULLETIN

No. 1-124. 1888-1920.

Number.

5. Kellerman, W.A. Preliminary report on sorghum blight, p. 56-60.
1888.

8. _____ & Preliminary report on smut in oats. 1889.

Swingle, W.T.

12. _____ Preliminary experiments with fungicides for stink-
ing smut of wheat. 1890. (Abstr. in 3d Rept.,
p. vii)

15. _____ Additional experiments and observations on oat
smut made in 1890. 1891. (Abstr. in 3d Rept.,
p. viii)

21. Kellerman, W.A. Second report on fungicides for stinking smut of
wheat. 1891. (Abstr. in 4th Rept., p. vii-viii)

22. _____ Smut of oats in 1891; Test of fungicides to pre-
vent loose smut of wheat; Spraying to prevent
wheat rust. 1891. (Abstr. in 4th Rept., p. viii)

23. _____ Smuts of sorghum; Corn smut. 1891. (Abstr.
in 4th Rept., p. viii)

38. Hitchcock, A.S. & Preliminary report on rusts of grain. 1893.
Carleton, M.A. (Abstr. in 6th Rept., p. vii) (See also Bul. 46)

41. _____ The effect of fungicides upon the germination of
corn. 1893. (Abstr. in 6th Rept., p. viii)

46. _____ Rusts of grain II. 1894. (Abstr. in 7th Rept.,
p. vii) (See also Bul. 38)

62. Hitchcock, A.S. & Corn smut. 1896. (Abstr. in 9th Rept., p. x.)
Norton, J.B.S.

63. Georgeson, C.C. Experiments with cats. 1896.
et al Effect of change in soils on the per cent of
smut, p. 222, 226.

74. _____ Experiments with oats. 1897.
et al IX. "Ceres pulver" as a remedy for smut, p. 205.

145. Dickens, A. & Spraying. 1907.

Eastman, R.E.

149. Roberts, H.F. & Prevention of sorghum and kafir corn smut. 1907.
Freeman, G.F.

155. Alfalfa. 1908.

Freeman, G.F. Diseases of alfalfa, p. 322-28.

156. Roberts, H.F. & The yellow berry problem in Kansas hard winter
Freeman, G.F. wheats. 1908.

174. Dickens, A. & Spraying the apple orchard. 1911.
Headlee, T.J.

176. Jardine, W.M. & How to grow wheat in Kansas. 1911.
Call, L.E. Treating wheat for smut, p. 20-23.

194. Dickens, A. Potato culture. 1913.
Potato diseases, p. 482-486.

203. Lewis, D.E. Orchard spraying. 1915. (Abstr. in Rept. 1915, p. 9)

210. Melchers, L.E. Smuts of grain and forage crops in Kansas. 1916.
(Abstr. in Rept. 1916, p. 9)

218. Cunningham, C.C. & Growing sorghum in Kansas. 1917.
Kenne, R. Diseases of sorghums, p. 52-53.

219. Call, L.E. & Growing wheat in Kansas. 1918.
Salmon, S.C. Rust resistance of Kanred, p. 20. Yellow berry
for wheat use, p. 28.

212. Thompson, G.E. Sudan grass in Kansas. 1916.

KANSAS AGRICULTURAL EXPERIMENT STATION.

CIRCULAR.

No. 1-84. 1909-1920.

Number..

12. Roberts, H.F. &
Graff, P.W. Treatment of seed wheat for smut. 1910.
15. Dickens, A. &
Headlee, T.J. Spraying apples. [1910 ?]
63. Melchers, L.E. Potato seed diseases and their treatment. 1918.
(Abstr. in Rept. 1918, p. 9)
65. Merrill, J.H. &
Melchers, L.E. Insects and plant diseases attacking garden crops.
1918. (Abstr. in Rept. 1918, p. 9)
66. Merrill, J.H. Spraying fruit trees. 1918. (Abstr. in Rept.
1918, p. 9)
68. Melchers, L.E. &
Parker, J.H. Another strain of *Puccinia graminis*. 1918.
(Abstr. in Rept. 1918, p. 10.)

PRESS BULLETIN.

No. 1-186. 1898-1911.

21. Winter protection of peach buds. 1899. (Bul. 86, p. 38-40.)
28. Treatment of winter injured trees. 1899. (Bul. 86, p. 50-52.)
31. Potato scab. 1899. (In Bul. 86, p. 56-58.)
64. Hitchcock, A.S. Prevention of grain smuts. 1900. (In Bul. 99,
p. 46-47.)
155. Roberts, H.F. Prevention of sorghum and kafir-corn smut. 1907.
183. Ten Eyck, A.M. Injury to wheat and other crops by freezing and
heaving of the soil. 1910.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Kans.-19. Roberts, H.F. Yellow-berry in hard winter wheat. 1919.

KENTUCKY AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

The early reports contain a few articles, most of which are reprinted from bulletins or circulars. Most of the reports contain only very brief notes concerning pathological work, of little or no value from the subject side.

Report.

1st, 1888: Experiments with wheat. 1886. M.A. Scovell.
Smut, p. 94-97. (Same as Bul. 8, p. 94-12.)

2nd, 1889, p. 8-51: Entomology and botany. H. Garman.

3d, 1890, p. 9-46: Observations on farm pests.
[Plant diseases], p. 43.

p. 43-46: Bacterial disease of cabbage.

p. 57-73: Broom-rape of hemp and tobacco (Same as Bul. 24)

p. 150-72: Some strawberry pests.
The strawberry leaf-blight fungus (Ramularia tulasnei, Saccardo), p. 150-59. (Same as Bul. 31, p. 3-13)

p. 178-85: Means of lessening injuries from insects and fungi.
(Same as Circ. 3.)

4th, 1891-5th, 1892: No pathology.

6th, 1893, p. 14-15: A note on the presence of arsenic in sprayed fruit.

p. 16-22: Division of entomology and botany. H. Garman.
[Plant diseases, brief notes], p. 21-22.

p. 33-59: Bordeaux mixture for apple pests.
(Same as Bul. 44).

p. 90-92: Sunstroke of trees. (Same as Bul. 47, p. 6-8)

p. 130: Experiment on plum rot, Monilia fructigena. (Same as Bul. 47, p. 53-55)

7th, 1894-22nd, 1909: Brief notes of progress of the Division of entomology and botany.

23rd, 1910-31st, 1918: No pathology, except mention of projects.

32nd, 1919, p. 44-47: [Plant diseases]. (In Director's report.)

BULLETIN.

No. 1-229. 1885-1920.

Number.

8. Scovell, M.A. Experiments with wheat. 1886.
Smut, p. 9-12. (Quotation from an article by Wm. H. Brewer from Census Report, 1880)
Same as 1st Rept., p. 94-97.
Wheat experiments. 1887.
Smut, p. 14-15. (Same as 1st Rept., p. 126.)

24. Garman, H. The broom-rape of hemp and tobacco (*Phelipaea ramosa*, Linn.) 1890. (Same as 3d Rept., p. 57-73.)

31. Some strawberry pests. 1890.
The strawberry leaf-blight fungus (Ramularia tulasnei, Saccardo), p. 3-13. (Same as 3d Rept., p. 150-59)

KENTUCKY AGRICULTURAL EXPERIMENT STATION,

BULLETIN (cont.)

Number.

44. Garman, H. Bordeau mixture for apple pests. 1893. (Same as 6th Rept., p. 52-59.)

47. I. The pests of shade and ornamental trees. 1893.
 II. Sunstroke of trees, p. 6-8. (Same as 6th Rept., p. 50-52.)

59. II. An experiment on plum root. (Same as 6th Rept. p. 130)
Spraying experiments in 1895 for checking apple rot and codling moth. 1895.

61. Potatoes. 1896.

66. Tobacco. 1897. Garman, H. Insects and fungus pests, p. 14-35.

69. Wheat, p. 79-96. Garman, H. Notes on ... two imperfectly known diseases of tobacco, p. 36-39.

72. Potatoes. 1898. Garman, H. Hot water and bluestone solutions as remedies for smut in wheat, p. 95-96.

77. Wheat. 1898. Garman, H. Red rust of wheat, p. 121-122.

80. Garman, H. Some pests likely to be disseminated from nurseries, p. 201-265.

81. The nursery inspection law, p. 266-273. 1899.

84. A method of avoiding lettuce rot, p. 3-4. 1899.

91. Potato scab experiments, p. 5-11.

93. The cabbages and their diseases. 1899.

99. Harper, J.N. Enemies of cucumbers and related plants. Experiments with potato scab. 1901.
[Diseases], p. 43-56.

105. Experiments with potato scab, p. 56-59. 1901.

133. Diseases of nursery stock, p. 101-111. 1901.

142. Garman, H. Oats. 1903.

147. Treatment for smut, p. 70-71. (Quoted from Bul. 69)
The green-veges. 1903.

155. Roberts, G. & Spraying apple trees, p. 3-13. 1908.

Kinney, E.J. Apple orchard pests in Kentucky [Diseases], p. 62-71.

172. Garman, H. Carnation root-mot. 1909.

226. Valneau, F.D. Common insecticides and fungicides, with directions for the treatment of farm pests. 1910.

Wheat. 1911.

Treatment of diseases, p. 52-60.

Fumigation and spraying. 1913.

Seed corn infection with *Fusarium moniliforme* and its relation to the root and stalk rots. 1920.

KENTUCKY AGRICULTURAL EXPERIMENT STATION.

CIRCULAR.

No. 1-24. 1885-1920.

Number. 3. Garman, H. Means of lessening injuries from insects and fungi. 1890. (Same as 3d Rept. p. 178-85.)
8. Gilbert, A. H. & Myer, D. S. Stem rot of clovers and alfalfa as a cause of "clover sickness". 1915.
13. Garman, H. A new sweetcorn disease in Kentucky. n.d. (1917?)
16. _____ A bean disease introduced in diseased seeds. 1917.
22. _____ & Hathaway, C. L. Treatment of seed wheat with formalin. 1918.

NEWSPAPER BULLETIN.

1-119. 1911(?)-1915.

1. When to spray and what to use. n.d. [1911?]
11. Kinney, E. J. Smuts of wheat and the Hessian fly. 1911.
32. Garman, H. Dodder in clover. 1912.
57. Carmody, J. H. Pear blight. 1913.
82. Garman, H. How to avoid potato scab and dry rot. 1914.
83. Carmody, J. H. Fire blight or pear blight. 1914.
107. _____ What to spray for. 1915.
109. _____ Fire blight. 1915.
114. _____ Black rot of grapes. 1915.

LOUISIANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1888-1920.

The early administrative reports of the director contain no reports from departments. A department of plant pathology was organized in 1906. Its reports are progress reports, or descriptions of projects.

Report.

1st, 1888 - 18th, 1905: No pathology.

19th, 1906, p. 16-17: Dept. of plant pathology.

H. R. Fulton.

LOUISIANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (C^ont.)

Report.

20th, 1907, p.19-21:	Dept. of plant pathology.	H.R.Fulton.
21st, 1908, p.20-22:	Dept. of plant pathology.	C.W.Edgerton.
22nd, 1909, p.12-14:	Dept. of plant pathology.	
23d, 1910, p.13:	Dept. of plant path. (In Director's Rept.)	
24th, 1911, p.11-12:	Dept. of plant pathology. (In Director's Report)	
25th, 1912, p.13-15:	Dept. of plant pathology.	
26th, 1913, p.24-26:	Dept. of plant pathology.	& C.C.Moreland.
27th, 1914, p.12-14:	Dept. of plant pathology.	
28th, 1915, p.18-21:	Dept. of plant pathology.	
29th, 1916, p.19-20:	Dept. of plant pathology.	C.W.Edgerton.
30th, 1917, p.14-15:	Dept. of plant pathology.	
31st, 1919, p.21-22:	Dept. of plant pathology.	
32nd, 1920, p.16-17:	Dept. of plant pathology.	& C.C.Moreland.

BULLETIN.

No. 1-177. 1890-1920.

This is the second series of bulletins, but the designation "second series" was dropped after Bul. 83. Since there were only 28 bulletins in the first series, the only bulletin in the following list for which "second series" is necessary for identification is No. 30.

Number.

S.2,30. Burnette, F.H.	Sweet potatoes. 1894. Diseases prevalent in Louisiana, p.1084-1089.
96. Fulton, H.R.	Cotton wilt. 1907.
100. _____	The root disease of sugar cane. 1908.
101. _____	Diseases of pepper and beans. 1908.
105. _____	Diseases affecting rice in Louisiana. 1908.
116. Edgerton, C.W.	Preliminary report on the anthracnose or pod spot disease of beans. 1909.
119. _____	The bean anthracnose. 1910.
120. _____	Some sugar cane diseases. 1910.
126. _____	Diseases of the fig tree and fruit. 1911.
133. _____	The red rot of sugar cane. A report of progress. 1911.
137. _____	The rots of the cotton coll. 1912.
139. _____ & Moreland, C.C.	The bean blight and preservation and treatment of bean seed. 1913.

LOUISIANA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

142. Edgerton, C.W. & Moreland, C.C. Diseases of the tomato in Louisiana. 1913.
142. Diseases of the tomato in Louisiana. (Abbreviated.) 1914.
150. Edgerton, C.W. Citrus canker. 1914.
155. & Moreland, C.C. Experiments on varietal resistance to the bean and cotton anthracnose diseases. 1916.
164. Edgerton, C.W. Delayed ripening of tomatoes caused by spraying with Bordeaux mixture. 1918.
169. & Moreland, C.C. Effect of fungi on the germination of sugar cane. 1920.
172. Quereau, F.C. Rice investigations. 1920.
Rice diseases, p. 56-60.
174. Edgerton, C.W. & Moreland, C.C. Tomato wilt. 1920.
176. Edgerton, C.W. Method of selecting L 511 cane free of the mosaic disease for planting purposes. 1920.

CROP PEST NOTICE.

No. 1-3. 1914-1915.

1. Notice relating to citrus canker.

GEOLOGY AND AGRICULTURE.

Pt. I-VI. 1892-1902.

Pt. V. Harris, G.D. & Veatch, A.C. A preliminary report of the geology of Louisiana. 1899.
Atkinson, G.F. Some wood-destroying fungi, p. 331-338.

MAINE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.
[1st]-35th. 1885-1919.

The early reports contain notes and articles, a few illustrated, on plant diseases, and reprints of bulletins. Beginning with 1899, no separate annual reports were issued. The last bulletins of the year contain a title page and a very short administrative report, with the statement that the bulletins for the year constitute the report.

Report.

[1st], 1885-		
[3d], 1887:	No pathology.	
4th, 1888,	Botanist and entomologist.	F. L. Harvey.
p. 136-95:	[Plant diseases], p. 148-51.	
[5th], 1889,	Botanist and entomologist.	
p. 148-256:	[Plant diseases], p. 153, 174-83.	
[6th], 1890,	Botanist and entomologist.	
p. 105-40:	[Plant diseases], p. 111-17.	
7th, 1891,	Horticulturist.	W. M. Munson.
p. 81-122:	Experiments in spraying, p. 110-21.	
8th, 1892,	Horticulturist.	
p. 59-98:	Spraying experiments, p. 92-98.	
p. 99-117:	Botanist and entomologist.	F. L. Harvey.
	[Plant diseases], p. 109-17.	
9th, 1893,	Horticulturist.	W. M. Munson.
p. 101-44:	Notes on spraying experiments, p. 124-28.	
p. 145-80:	Botanist and entomologist.	F. L. Harvey.
	[Plant diseases], p. 152-56.	
10th, 1894,	Botanist and entomologist.	
p. 81-133:	[Plant diseases reported], p. 86-103.	
p. 138-42:	Munson, W. M. Spraying experiments. (Bul. 8.)	
11th, 1895,	Horticulturist division.	H. P. Gould.
p. 78-88:	Fungiroid as preventive of potato rot, p. 78-79.	
12th, 1896,		
p. 158-62:	Gould, H. P. Potato rot. (Bul. 28.)	
p. 162-65:	Munson, W. M. Notes on spraying. (Bul. 29.)	
13th, 1897:	Notes on plants of the season.	F. L. Harvey.
	Blighting of maple leaves, p. 181.	
14th, 1898:	Notes on plants of the year.	
	[Plant diseases], p. 131.	
15th, 1899,	Munson, W. M. The spraying of plants, (Bul. 52.)	
p. 51-56:		
16th, 1900-	No pathology.	
35th, 1919:		

MAINE AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-26. 1885-1888.

This series of bulletins contains no pathological material.

BULLETIN.

Ser. 2, No. 1-294. 1889-1920.

The designation Second series was dropped after Bull. 25.

Number.

r.2. 2. Harvey, F.L. The potato rot. *Phytopathora infestans*, DeBary.
(*Peronospora infestans*, Mont.), p. 5-7 n.d. [1889?]
Spraying experiments. 1894. (Reprinted in [10th] Rept., p. 138-42.)

28. Gould, H.P. Potato rot: Bordeaux mixture and fungiroid as preventives. 1896. (Also in 12th Rept., p. 158-62.)

29. Munson, W.M. Notes on spraying. 1896. (Also in 12th Rept., p. 162-65)

52. _____ The spraying of plants. 1899. (Also in 15th Rept., p. 51-56.)

73. Woods, C.D. Experiments with fungicides upon potatoes in 1900.
How to fight potato enemies. 1901.

87. _____ Potato insecticides and fungicides in 1902. Oat smut and its prevention. 1902.

98. _____ Potato experiments in 1903. [Variety test and spraying for resistance to blight], p. 181-192. 1903.

111. Newspaper bulletins... 1904. Oat smut and its prevention, p. 212.

112. Woods, C.D. Potato experiments in 1904. 1905.
Notes on the rotting of potatoes due to the late blight fungus (*Phytophthora infestans*), p. 1-5.
Experiments with dry Bordeaux: soluble Bordeaux for potato blight, p. 6-12.

128. Munson, W.M. Orchard notes. 1906.
Notes on spraying, p. 65-71.
Winter injuries to trees, p. 73-75.

137. Newspaper bulletins... 1906. Potato scab, p. 283-285.

141. Morse, W.J. Potato scab. 1907.

149. _____ Potato diseases in 1907. 1907.

154. Woods, C.D. & Hanson, H.H. Paris green. Bordeaux mixture. 1908.

164. Morse, W.J. Notes on plant diseases, 1908. 1909.

167. Woods, C.D. & Bartlett, J.M. Field experiments, 1906-8. 1909.
A test of blight resistant varieties of potatoes, p. 92-96.
Target brand fungicide on potatoes, p. 96-98.

169. Morse, W.J. Two epidemics of potato blight and rot, 1909.

170. Lewis, C.E. Apple diseases caused by *Coryneum foliicolum* and *Phoma malii*. 1909.

174. Morse, W.J. Blackleg, a bacterial disease of the stem and tuber of the Irish potato. 1909.

178. Lewis, C.E. A new species of *Endomyces* from decaying apple. 1910.

185. Morse, W.J. & Lewis, C.E. Maine apple diseases. 1910.

189. Bonns, W.W. Orchard spraying experiments. 1911.

MAINE AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

194. Morse, W.J. Control of the blackleg disease of the potato. 1911.
198. Bonns, W.W. Orchard spraying experiments. 1912.
199. _____ Orchard notes. 1912.
212. Morse, W.J. & Winter injury, p. 54-55.
Yeaton, G.A. Orchard spraying experiments in 1912. 1913.
219. Lewis, C.E. Comparative studies of certain disease producing
species of Fusarium. 1913.
223. Morse, W.J. Spraying experiments and apple diseases in 1913.
1914.
227. _____ Powdery scab of potatoes. 1914.
230. _____ & The Rhizoctonia disease of potatoes. 1914.
Shapovalov, M.
236. Woods, C.D. Field experiments in 1914. 1915.
"Black hearted" turnips, p. 57-59.
240. Morse, W.J. & Apple spraying experiments in 1914. 1915.
Shapovalov, M.
245. Abstracts of papers not included in the bulletins. 1915.
Shapovalov, M. Effect of temperature on germination and growth
of the common potato-scab organism. Abstr. from J.A.R., v. 4,
p. 129-34.
249. Morse, W.J. Six years of experimental apple spraying at High-
moor farm. 1916. (See also Bul. 189, 198, 212,
223, 240.).
252. _____ Spraying experiments and apple diseases in 1915. 1916.
271. _____ Apple spraying experiments in 1916 and 1917. 1918.
268. Abstracts of papers not included in the bulletins. 1917.
Morse, W.J. Studies upon the blackleg disease of the potato...
Abstr. of J.A.R. v. 8, p. 79-126.
Ramsey, G.B. A form of potato disease produced by Rhizoctonia.
Abstr. of J.A.R. v. 9, p. 421-26.
284. Abstracts of papers not included in the bulletins. 1919.
Ramsey, G.B. Studies on the viability of the potato blackleg or-
ganism. Abstr. of J.A.R. v. 9, p. 285-288.
Folsom, D. Investigations on the mosaic disease of the Irish po-
tato. Abstr. from J.A.R. v. 17, p. 247-274.
288. Morse, W.J. Some observations upon the effect of borax in ferti-
lizers. 1920.
292. Folsom, D. Potato mosaic. 1920.

MAINE AGRICULTURAL EXPERIMENT STATION.

[MISCELLANEOUS PUBLICATIONS]

No. 151-535. 1903-1918.

No. 1-150, 152-171, 173-176, 178, 182-205, 207-211, 213-222, 224-245, 248, 252, 256, 258-261, 263-264 titles not ascertained. No. 256, 264 not printed.

For the most part, these consist of ephemeral material but a few are considered by the Station to be of permanent value and are reprinted in the annual reports. Those prior to 1907 are for the most part unavailable, and information concerning a few others is lacking.

Number.

345. Crown gall of the apple. 1909.
371. Blackleg, a bacterial disease of potatoes. 1910.
374. Woods, C.D. To the shippers of Maine seed potatoes [Warning against diseased seed]. 1910.
375. Morse, W.J. Certain diseases of Maine potatoes and their relation to the seed trade. [1910.]
376. Seed potatoes and late blight. 1910.
386. Plant diseases. [1910]
399. Maine apple diseases. 1911.
400. Papers from Plant pathological laboratory. 1911.
431. Orchard spraying experiments. 1911.
442. Control of the blackleg disease of the potato. 1911.
452. Orchard spraying experiments notice. 1912.
456. Orchard spraying experiments. 1912.
468. Morse, W.J. The preparation and use of lime-sulphur in orchard spraying. 1913.
485. Woods, C.D. Special report of the Maine Agricultural Experiment Station for the Commissioner of Agriculture for the year 1912, 1913. Plant pathology. (not seen)
492. Special report of the Maine Agricultural Experiment Station for the Commissioner of Agriculture for the year 1913. 1914. Plant pathology, p. 43-59.
505. Special report of the Maine Agricultural Experiment Station for the Commissioner of Agriculture for the year 1914. 1915. [Plant pathology], p. 26-39.
522. Spraying potatoes in 1916. 1916.
523. Morse, W.J. The preparation and use of lime sulphur in orchard spraying, 1916.
531. Potato growing and potato diseases from Maine to California. 1916.
535. How to control potato enemies. 1918.

MAINE AGRICULTURAL EXPERIMENT STATION.

[MISCELLANEOUS PUBLICATIONS] UNNUMBERED.
No dates.

Woods, C.D. Condensed directions for spraying the apple. n.d.
How to fight cucumber enemies. n.d. [1899]
How to fight potato enemies. n.d. [1900]

NEWSPAPER BULLETIN.

No. 1-7. 189(?)-1893.

Number.

3. Spraying experiments. 1892.

NEWSPAPER BULLETIN (UNNUMBERED.)

1901(?)-1908.

Several publications called newspaper bulletin, but not numbered.
Oat smut and its prevention. 1904. (See Bul. 111.)
Potato scab. 1906. (See Bul. 137.)
Woods, C.D. How to fight potato enemies. [1908].

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

1914-1920.

Number.

Me.-4. Shapovalov, M. Effect of temperature on germination and growth of the common potato-scab organism. 1915.
(Abstr. in Bul. 245, p. 307-08.)

Me.-9. Morse, W.J. Studies upon the blackleg disease of the potato, with special reference to the relationship of the causal organisms. 1917. (Abstr. in Bul. 268, p. 311-13.)

Me.-10. Ramsey, G.B. A form of potato disease produced by Rhizoctonia. (Abstr. in Bul. 268, p. 313-14.)

MARYLAND AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33rd: 1888-1919/20.

A few early reports contain mention of occurrence of diseases and of work of the horticultural department in spraying. The 12th Report announces the appointment of a plant pathologist, necessitated by the passage of the "new law for the suppression of insect pests and plant diseases." (See below, Bul. 55). There were no special reports of this department but merely short notes concerning it in the reports of the director.

Report.

1st, 1888-

2nd, 1889: No pathology.

3d, 1890, p.10-17: Report of the horticulturist. T.L. Brunk.

[Leaf blight of strawberries; varieties affected], p. 104-08.

[Blackberry rust, varieties affected], p.115-16.

4th, 1891, Report of horticulturist. T.L. Brunk.

p.379-429: [Spraying and plant diseases], p.379-421.

5th, 1892-33, 1919: No pathology, except short notes of progress, or lists of projects.

BULLETIN.

No. 1-235. 1888-1920.

Number.

25. Miller, R.H. & Brinkley, E.H. Corn, potatoes, p.26-41. 1894. Treating [potato] seed with corrosive sublimate for the prevention of scab, p.37-39. Spraying with Bordeaux mixture for prevention of [potato] blight, p.40-41. Potato experiments. 1895. [Bordeaux mixture for blight], p.75-77.

31. Potato experiments. 1896. [Bordeaux mixture for blight], p.62.

38. Spray calendar. 1896. (Reprint of Cornell Bul.114) The Maryland trees and nursery stock law and other information of special interest to nurserymen and fruit growers. 1896.

39. Miller, R.H. Rust and leopard spot, two dangerous diseases of asparagus. 1897.

42. Johnson, W.G. Tomatoes. 1898. The tomato blight, p.122-134.

50. Law providing for the suppression and control of insect pests and plant diseases in Maryland, p.145-149. 1898. (See also Circ. Bul. 41).

54. Robinson, J.S. Some important wheat diseases, p.123-217. 1898.

55. Johnson, W.G. Some diseases of the sweet potato and how to treat them. 1899.

58. Townsend, C.O. 60.

MARYLAND AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

62. Patterson, H.J.
et al. Experiments with wheat, corn and potatoes. 1899.

65. Johnson, W.G.
et al. Spraying and working tests [of potatoes] in 1897
and 1898, p. 201-203.

71. Townsend, C.O. &
Gould, H.P. Some important insecticides, fungicides and apparatus for their application. 1900.

74. Townsend, C.O. Notes on spraying peaches and plums in 1900. 1901.

83. Sandsten, E.P. &
White, T.H. Notes on celery blight. 1901.

93. Austin, C.F. &
White, T.H. Investigation as to the cause of pithiness in celery. 1902. (See also Bul. 93.)

108. Norton, J.B.S. Second report on the pithiness of celery. 1904.
(1st Rept. is Bul. 83.)

113. White, T.H. &
Ballard, W.R. Irish potato diseases. 1906.

115. Norton, J.B.S. &
Symons, T.B. Tomato investigations: 1906.

130. Symons, T.B.
et al. Spraying experiments, p. 94-98.

133. Close, C.P. &
White, T.H. Control of insect pests and diseases of Maryland crops. 1907.

143. Norton, J.B.S. &
Norman, A.J. Nurseries and nursery inspection. 1908.

147. Schmitz, N. Cabbage experiments and culture. 1909.

156. Norton, J.B.S. &
White, T.H. Effect of soil treatment on cabbage diseases, p. 176-80.

164. Norton, J.B.S. &
Symons, T.B. Resistance of varieties to disease, p. 180-90.

180. White, T.H.
et al. Plant diseases and spray calendar. 1910.

192. Norton, J.B.S. Wheat - Smuts and scab, p. 40-45. 1910.

198. Schmitz, N. Rose mildew. 1911.

204. White, T.H. Lime-sulphur as a summer spray. 1912.

216. Norton, J.B.S. &
Leathers, C.E. Tomatoes: Varieties, diseases, culture. 1914.
Norton, J.B.S. - Tomato diseases, p. 102-14.

228. Schmitz, N. Internal action of chemicals on resistance of tomatoes to leaf diseases. 1916.

Wheat. 1916.

Diseases, p. 86-92.

Variety tests of potatoes, tomatoes, cabbage and other vegetables. 1917.

Late cabbage [experiments to discover disease resistant varieties], p. 240-45.

Conditions detrimental to seed production. 1918.

Growing alfalfa in Maryland. 1919.

Yellowing of alfalfa, p. 24.

MARYLAND AGRICULTURAL EXPERIMENT STATION.

CIRCULAR BULLETIN.

No. 1-61. 1900-1907.

Numbers 1-29 were called Circular. Series issued by the State Horticultural Department, but Nos. 36-61 also bear the name of the station.

Number.

2. Townsend, C.O. Special instructions for preparing Bordeaux mixture. 1900.
8. Suggestion for the prevention of plum rot. n.d.
9. Suggestions for the treatment of pear blight. n.d.
10. Suggestions for treating apple rust and scab. n.d.
15. Emergency circular on the treatment of pear blight. n.d.
18. Suggestions for the treatment of peach leaf curl. 1900.
20. Second emergency circular on pear blight. 1900.
21. Townsend, C.O. Some suggestions for the treatment of celery rust. 1900.
22. Some suggestions in regard to peach yellows. 1900.
24. Law providing for the suppression and control of insect pests and plant diseases in Maryland. n.d. (See also Bul. 55)
28. Townsend, C.O. Fall treatment of pear blight. 1900.
30. _____ Black knot. 1901.
32. _____ Cantaloupe blight. 1901.
33. Quaintance, A.L. & Norton, J.B.S. To agents of transportation companies [in regard to nursery inspection law]. 1901.
34. Norton, J.B.S. Treatment of yellows. 1901.
38. _____ Spring advice about fruit diseases. 1902.
39. _____ Peach rot. 1902.
40. Blodgett, F.H. The why of spraying. 1902.
41. Law providing for the suppression and control of insect pests and plant diseases in Maryland. 1902: (Law also in Bul. 55, p. 146-49.)
42. Quaintance, A.L. & Norton, J.B.S. Instructions relating to nurseries. 1902.
43. Norton, J.B.S. Peach yellows. 1902.
50. Blodgett, F.H. Bordeaux mixture and its use. 1903. rev. 1905.
51. Norton, J.B.S. Apple diseases and their treatment. 1903 (?) rev. (?)
52. Symons, T.B. & Norton, J.B.S. Insects and diseases of the tomato. 1903.
53. Norton, J.B.S. & Blodgett, F.H. Digest of State laws relating to the control of insects and plant diseases. 1903.
56. Norton, J.B.S. Crown gall. 1904. Ap. 1904.
Same, "2nd ed." May, 1904.
58. Norton, J.B.S. & Symons, T.B. Cabbage diseases and insects. 1904.
61. Norton, J.B.S. & Blodgett, F.H. Winter work against fruit diseases. 1904.
62. Spray formulas. 1907.

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

The first station in Massachusetts was organized at Amherst, in 1882, under the name "The Massachusetts State Agricultural Experiment Station." In 1888, another station, also at Amherst, was organized under the Hatch act and called "The Hatch Experiment Station of the Massachusetts Agricultural College." Between the years 1888 and 1895 publications were issued independently from both stations. In 1895 these two stations were combined under the name of the "Hatch Experiment Station;" and in 1906 the name was changed to "The Massachusetts Agricultural Experiment Station." In this list the various series are entered as follows:

1882-1895: Massachusetts State Agricultural Experiment Station.

1888-1906: Hatch Experiment Station.

1907-1920: Massachusetts Agricultural Experiment Station.

The annual reports of all of these series contain important articles on plant pathology.

MASSACHUSETTS STATE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-12th: 1883-1894.

Report.

1st, 1883,	Horticultural department.	S.T. Maynard.
p. 50-57:	Diseases of plants, p. 53-54.	
2nd, 1884:	Experiments with special fertilizers in fruit culture. "The yellows", p. 118-19.	
p. 12-22:	"Communication from Prof. S.T. Maynard." [Plant diseases], p. 16-18, 22.	
3d, 1885-		
4th, 1886:	No pathology.	
5th, 1887,	Observations with scabby potatoes. (In p. 144-48: Director's Rept.)	C.A. Geesmann.
6th, 1888,	Observations with scabby potatoes. (In p. 126-30: Director's Rept.)	
p. 131-38:	Potato scab.	J.E. Humphrey,
7th, 1889,		
p. 195-230:	Department of vegetable physiology.	
8th, 1890,	Department of vegetable physiology.	
p. 200-26:	Department of vegetable physiology.	
9th, 1891,	Department of vegetable physiology.	
p. 218-47:	Department of vegetable physiology.	
10th, 1892,	Department of vegetable physiology.	
p. 211-45:	Department of vegetable physiology.	
11th, 1893-		
12th, 1894:	No pathology.	

STATE
MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-57. 1883-1895.

Number.

10. Maynard, S.T. Observations regarding the ... causes of certain diseases of grasses. 1884.
34. Humphrey, J.E. Department of vegetable physiology, p.3-5. 1889.
39. _____ Treatment of fungous diseases, p.2-12. 1891.
40. _____ Some diseases of lettuce and cucumbers, p.2-3. 1891.

MASSACHUSETTS. HATCH EXPERIMENT STATION.

ANNUAL REPORT.

1st-18th. 1888-1905.

Report.

[1st], 1888, Horticultural department. S.T. Maynard.
p.13-21: Protection of peach buds from... cold, p.15-17. (Same as Bul.1, p.9-12.)
p.28-50: Division of horticulture.
Sulphur as an insecticide & fungicide, p.49-50.
2d, 1889: Division of vegetable pathology. (Projects only)
3d, 1890: No pathology.
4th, 1891, Horticultural division. (In Director's Rept.)
p.11-13: Horticultural division. (In Director's Rept.)
5th, 1892, Horticultural division. (In Director's Rept.)
p.156-58: [Spraying], p.157-58.
6th, 1893, Horticultural division. (In Director's Rept.)
p.5-7: [Spraying], p.7.
7th, 1894, Horticultural division. (In Director's Rept.)
p.16-23: [Plant diseases], p.18-20.
8th, 1895, (a) Report of the botanist. G.E. Stone.
p.7-10: Report of the horticulturist. S.T. Maynard.
p.47-50: _____
9th, 1896, (a) Report of the horticulturist. G.E. Stone &
p.53-56: (a) Report of the botanist. R.E. Smith.
p.57-84: _____
10th, 1897, Report of the botanists. _____
p.47-70: _____
11th, 1898, Report of the botanists. _____
p.142-67: _____
12th, 1899, Report of the botanists. _____
p.56-73: _____

(a) This department was considered a reestablishment of the Department of vegetable physiology of the State station. See 9th Rept., p.173.

MASSACHUSETTS. HATCH EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.		
13th, 1900, p. 71-83:	Report of the botanists.	G.E. Stone & R.E. Smith
14th, 1901, p. 57-85:	Report of the botanists.	
15th, 1902, p. 27-42:	Report of the botanists.	
16th, 1903, p. 9-12:	Report of the botanists.	G.E. Stone & M.F. Monahan.
17th, 1904, p. 7-34:	Report of the botanists.	
18th, 1905, p. 115-18:	Report of the botanists.	

BULLETIN.

No. 1-114. 1888-1907.

Number.		
1. Maynard, S.T.	Protection of peach buds from injury by cold, p.9-12. 1888. (Also in 1st Rept., p.13-21.)	
4. _____	Experiments in heating greenhouses... 1889. Evaporated sulphur for the destruction of mildews and insects in greenhouses, p.10-14.	
6. Humphrey, J.E.	The plum wart (<i>Sphoeria morbosa</i>), p.15-16.	
8. Maynard, S.T.	Fungous diseases of plants, p.9-19. 1889.	
11. Brooks, W.P.	Some observations on peach yellows, p.6-12. 1890.	
Maynard, S.T.	Report on prevention of potato rot, p.8-9. 1891.	
13. _____	Report on fungicides and insecticides on fruits, p.12-22. 1891. Directions for the use of fungicides and insecti- cides, p.3-10. 1891.	
16. Warner, C.D.	A brief summary of results in electro-culture... also some experiments made at the Station with let- tuce... 1892. Effect of electricity upon mildew [of lettuce], p. 7-8.	
17. Maynard, S.T.	Experiments with fungicides and insecticides, p.11-32, 41-47. 1892.	
21. _____	Protection of peach buds, p.34-36. 1892. Report on fruits [including fungous diseases and fungicides]. 1893.	
25. _____	Fungicides and insecticides. Tests of grapes. 1894.	
29. _____	Fungicides, insecticides, spraying calendar. 1894.	
37. _____ & Putnam, J.H.	Report on fruits, insecticides, fungicides. 1896.	
44. Maynard, S.T. et al	Variety tests of fruits... 1897. Spray calendar, p.45-48.	
52. Maynard, S.T.	Variety tests of fruits. Spraying calendar. 1898.	
55. Stone, G.E. & Smith, R.E.	Nematode worms. 1898.	
60. Maynard, S.T.	Insecticides, fungicides, spraying calendar. 1899.	
61. Stone, G.E. & Smith, R.E.	The asparagus rust in Massachusetts. 1899.	

MASSACHUSETTS. HATCH EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

66. Maynard, S.T. Variety tests of fruits... 1900.
Spraying calendar, p.18-19.
69. Stone, G.E. & Smith, R.E. The rotting of greenhouse lettuce. 1900.
73. Maynard, S.T. & Drew, G.A. Orchard experiments... 1901.
Spraying, p.9-15.
79. Smith, R.E. Growing China asters. 1902.
Troubles in growing the aster, p.4-24.
80. Stone, G.E. Fungicides, insecticides, spraying calendar. 1902.
et al
87. _____ Cucumbers under glass. 1903.
Diseases, p.29-40.
91. _____ Injuries to shade trees from electricity. 1903.
96. _____ Fungicides, insecticides, spraying calendar. 1904.
et al

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

19th-32nd. 1906-1919.

Some of the botanists' reports were published in separate form with separate pagination. As these were not available for examination it was not possible to show which were so published.

Report:

19th, 1906, Report of the botanists. G.E. Stone & N.F. Monahan.
p.157-91:
20th, 1907: Report of agriculturist. W.P. Brooks,
p.120-50: [Fertilizers and potato blight], p.42. et al
Report of the botanists. G.E. Stone, et al
21st, 1908, Pt. I, p.40-61: [Articles on plant diseases] G.E. Stone
Pt. II, p.52-58: Report of the botanist. _____
22nd, 1909, Pt. I, p.69-72: Report of the botanists. G.H. Chapman.
p.163-67: [Articles on plant diseases]. _____
Pt. II, p.46-69: [Articles on plant diseases] G.E. Stone
23d, 1910, Pt. I, p.75-76: Report of the botanist. _____
p.144-76: [Articles on plant diseases] by various authors. _____
Pt. II, p.31-32: Brooks, W.P. Diseases of alfalfa. _____
p.47-71: [Articles on plant diseases] _____

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Number.

24th, 1911,

Pt. I, p. 70-71: Report of the botanist.

G.E. Stone.

p. 108-11: [Articles]

Pt. II, p. 35-46: Haskins, H.D. Tobacco injury due to main nutrition or overfertilization.

p. 54-81: [Articles on plant diseases]

G.E. Stone.

25th, 1912,

Pt. I, p. 35-37: Report of the botanist.

p. 38-101: [Articles on plant diseases] By G.E. Stone & G.H. Chapman.

p. 209-34: Franklin, H.J. Report of cranberry substation for 1912. Fungous diseases, p. 211-19.

Pt. II, p. 33-34;

41-51; 67-68; 71-79: [Articles on plant diseases] by various authors.

26th, 1913, (a)

Pt. I, p. 53a-54a: Report of the botanist.

G.E. Stone.

27th, 1914,

Pt. I, p. 55a-59a: Report of the botanist.

A.V. Osmun.

28th, 1915,

Pt. I, p. 62a-64a: Department of botany.

29th, 1916,

Pt. I, p. 59a-64a: Department of botany.

30th, 1916,

Pt. I, p. 33a-38a: Department of botany.

31st, 1918,

Pt. I, p. 20a-26a: Department of botany.

32d, 1919,

Pt. I, p. 13a-17a: Department of botany.

(a) This and subsequent reports are administrative reports, with no signed articles.

BULLETIN.

No. 115-198. 1907-1920.

Number.

123. Stone, G.E. & Fernald, H.T.

Fungicides, insecticides, and spraying directions. 1908.

125. Start, F.A. et al.

Shade trees. 1908.

Stone, G.E. Tree surgery, p. 30-36.

Effects of gas, electricity, etc. on trees, p. 37-48.

138. Stone; G.E.

Tomato diseases. 1911.

144. _____

The relation of light to greenhouse culture. 1913.

150. Franklin, H.J. & Morse, F.W.

The relation of light to pathological conditions, p. 5-7.

Reports on experimental work in connection with cranberries. 1914.

Report of cranberry substation for 1913.

Fungous diseases, p. 39-46.

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

156. Stone, G.E. Electrical injuries to trees. 1914.
160. Franklin, H.J. Report of cranberry substation for 1914. 1915.
Fungous diseases, p.94-100.
161. Ruprecht, R.W. Toxic effect of iron and aluminum salts on clover
seedlings, p.125-29. 1915.
168. Franklin, H.J. Report of cranberry substation for 1915. 1916.
Fungous diseases, p.1-31.
170. Stone, G.E. Shade trees, characteristics, adaptation, diseases
and care. 1916.
Tree surgery, p.159-85.
Diseases of trees, p.183-254.
175. Chapman, G.H. Mosaic disease of tobacco. 1917.
180. Franklin, H.J. Report of the cranberry substation for 1916. 1917.
Fungous diseases, p.186-223.
Shear, C.L. Observations on the spoilage of cran-
berries due to lack of proper venti-
lation, p.235-39.
183. Anderson, P.J. Rose canker and its control. 1918.
192. Franklin, H.J. Seventh report of the Cranberry substation from 1917
to 1919. 1919.
194. Brooks, W.P. A fertilizer experiment with asparagus. 1919.
& Morse, F.W. The relation of variation in fertilizer application
to rust, p.254.
195. Chapman, G.H. Tobacco investigations. Progress report. 1920.
Tobacco diseases, p.23-31, 33.
198. Studies of cranberries during storage. 1920.
Rudolph, B.A. & Franklin, H.J. Fungi studies, p.88-92.

CIRCULAR.

No. 1-66. 1907-1916..

21. Stone, G.E. The control of onion smut. 1909.
31. _____ Lime and sulphur solutions. 1911.
39. _____ Lime and sulfur solutions. 1914.
(Revision of Circ. 31).
40. _____ Downy mildew and cucumbers. (Peronosplasmopara cuben-
sis (B. & C.) Cl.). 1914.
41. _____ The control of onion smut. 1914.
51. _____ Downy mildew of cucumbers. (Peronosplasmopara cuben-
sis. (B. & C.) Cl.). 1915.
(Revision of Circ. 40.)
52. _____ The control of onion smut. 1915.
(Revision of Circ. 41.)
53. _____ Lime and sulfur solutions. 1914.
(Revision of Circ. 39.)

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION.

TECHNICAL BULLETIN.

Number.

3. Smith, E.H. The blossom end rot of tomatoes. 1907.

CRANBERRY STATION.

ANNUAL REPORT.

1911-1919.

This report contains a section on fungous diseases.

Report.

- [1st], 1911: Mass. 24th Rept., p.14-25.
- [2nd], 1912: Mass. 25th Rept., p.209-34.
- [3d], 1913: Mass. Bul. 150.
- [4th], 1914: Mass. Bul. 160.
- [5th], 1915: Mass. Bul. 168.
- [6th], 1916: Mass. Bul. 180.
- 7th, 1917-19: Mass. Bul. 192.

MICHIGAN AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

No. 1-31. 1887/08-1917/18.

The horticultural section and the South Haven Sub-station report work on spraying; later the Division of botany reports work on plant diseases. Each annual report contains reprints of the bulletins.

Report.

- 1st, 1888: No pathology.
- 2nd, 1889, Report of the horticulturist. L.R.Taft.
- p.17-21: The apple orchard: [spraying for scab], p.20-21.
- p.271-98: Horticultural department. T.T.Lyon.
Strawberries: [Variety table showing occurrence of Sphaerella fragariae], p.287-94. (Bul.55, p.6-11.)
Raspberries: [Variety table showing occurrence of anthracnose and downy mildew, p. 282-85. (Bul.55,p.18-21.)

ANNUAL REPORT (Cont.)

Report.

3rd, 1890, Report of the horticulturist. L.R. Taft.

p. 16-22: Experiments with fungicides [for apple scab], p. 19.

p. 113-52: Horticultural department. L.R. Taft.

 Potato scab, p. 133-35. (Bul. 57, p. 23-25.)

p. 184-98: Horticultural department-Part 2. (Bul. 59, pt. 2)

 I. Notes on the fungus of apple scab, p. 184-86. B.T. Galloway.

 II. Report of the experiments made in 1889 in the treatment of apple scab in Michigan, p. 186-98. L.R. Taft.

p. 256-86: Horticultural department.

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v.1,no.1. Coons, G.H. The use of formaldehyde to control cereal smuts, p.11-14. 1918.

no.2. Patten, A.J. Plant disease notes for fall and winter, p.54-57. 1918.

no.3. Patten, A.J. The results of the barberry eradication campaign, p. 59-60. 1918.

no.4. Patten, A.J. Michigan experiments on bean disease control, p. 104-06. 1919.

v.2,no.1. Coons, G.H. Botanical notes. - Barley disease, potato spraying and seed treatment, damping-off of seedlings, p. 159-162. 1919.

no.2. Patten, A.J. Analyses of insecticides and fungicides, p. 162. 1919.

no.3. Coons, G.H. Botanical notes. - Take-all and flag smut, potato wart, apple scab, tomato blight, p. 14-17. 1919.

no.4. Patten, A.J. & O'Neara, P. Bordeaux mixture, p. 18-19. 1919.

Halligan, C.P. Horticultural notes, [spraying, etc], p. 90-91. 1919.

no. 3. Coons, G.H. Oat smut again makes treatment necessary, p.118-19. 1920.

Spragg, F.A. & Down, E.E. Treatment for barley diseases, p.120-21. 1920.

Rust resisting sunflowers, p.128-29. 1920.

no.4. Coons, G.H. Treatment of seed potatoes for scab, p.172-75. 1920.

v.3,no.1. Dutton, W.C. Safe guarding next year's wheat treatment for stinking smut, p. 9-11. 1920.

no.2. Dutton, W.C. Dry lime-sulphurs do not control apple scab, p.55-59. 1920.

SPECIAL BULLETIN.

No. 1-102. 1894-1920.

4. Taft, L.R. Spraying - why and how, p.13-19. 1896.

11. Frozen trees and their treatment. 1899.

12. Smith, D.D. Spraying calendar. 1899.

15. Spraying calendar. 1902.

MICHIGAN AGRICULTURAL EXPERIMENT STATION.

SPECIAL BULLETIN (Cont.)

Number.

19. Taft, L.R. & Smith, C.D. Spraying calendar. 1903. (Also 16th Rept., p. 286-93.)

25. Longyear, B.O. Fungous diseases of fruits in Michigan. 1904. (Also 18th Rept., p. 347-98.)

26. Taft, L.R. & Smith, C.D. Spraying calendar. 1904. (Also 18th Rept., p. 398-405.)

27. Farrand, T.A. Report of the South Haven sub-station for 1903. 1904. [Spraying experiments], p. 17-18, 24. (Same as 18th Rept., p. 416, 421.)

30. _____ Report of South Haven sub-station for 1904. 1905. [Spraying experiments], p. 5-6, 13, 20.) (Also 18th Rept., p. 463-64, 469, 474-75.)

35. Taft, L.R. & Farrand, T.A. Report of the South Haven sub-station for 1905. 1906. [Spraying experiments], p. 11, 20-24. (Also 19th Rept., p. 321, 330-34.)

36. Taft, L.R. & Smith, C.D. Spraying calendar. 1907. (Also 20th Rept., p. 266-74.)

37. Taft, L.R. Spraying. 1907. (Also 20th Rept., p. 275-300.)

45. _____ & Shaw, R.S. Spraying calendar. 1908. (Also 21st Rept., p. 391-98.)

48. _____ & Wilken, F.A. Spraying calendar. Reprint with some revision. 1909. Report of the South Haven sub-station for 1908. 1909. Calcium benzoate as a spray, p. 24. (Also 22nd Rept., p. 311.)

49. Shear, C.L. & Hawkins, L.A. Grape spraying experiments in Michigan, 1907-08. 1909. (Also 22nd Rept., p. 312-26.)

51. Eustace, H.J. & Pettit, R.H. Spray and practice outline for fruit growers. 1910. (Also 23d Rept., p. 425-39.)

54. _____ Spray and practice outline for fruit growers, 1911. 1911. (Also 24th Rept., p. 320-36.)

57. _____ Spray and practice outline for fruit growers, 1912. 1912. (Also 25th Rept., p. 510-20.)

60. Halligan, C.P. Celery culture in Michigan. 1913. Diseases, p. 22. (Also 26th Rept., p. 342-43.)

61. Eustace, H.J. & Pettit, R.H. Spray and practice outline for fruit growers, 1913. 1913. (Also 26th Rept., p. 345-65.)

66. Coons, G.H. The potato diseases of Michigan. 1914. (Also 27th Rept., p. 383-409.)

68. Muncie, J.H. Two Michigan bean diseases. 1914. (Also 27th Rept., p. 426-35.)

69. Eustace, H.J. & Pettit, R.H. Spray and practice outline for 1914. 1914. (Also 27th Rept., p. 436-56.)

72. Bessey, E.A. & McClintock, J.A. Some ginseng troubles. 1915. (Also 28th Rept., p. 267-79.)

73. Eustace, H.J. & Pettit, R.H. Spray and practice outline for 1915. 1915. (Also 28th Rept., p. 280-301.)

74. Patten, A.J. & Kellogg, D.C. Analyses of some materials sold as insecticides and fungicides. 1915. (Also 29th Rept., p. 340-48.)

77. Coons, G.H. & Levin, E. The Septoria leaf spot disease of celery or celery blight. 1916. (Also 29th Rept., p. 372-78.) [Dutch edition.] De bladvlekkenziekte van de selderij (celery blight) veroorzaakt door Septoria. 1916.

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SPECIAL BULLETIN (Cont.)

Number.

- 81. Coons, G.H. & Levin, E. The leaf-spot disease of tomato. 1917. (Also 30th Rept., p. 485-96.)
- 85. Coons, G.H. Michigan potato diseases. 1918. (Also 31st Rept., p. 536-80.)
- 86. Halligan, C.P. & Pettit, R.H. Spray and practice outline for fruit growers. 1918. (Also 31st Rept., p. 581-602.)
- 87. Dutton, W.C. Dusting and spraying experiments with apples. 1918. (Also 31st Rept., p. 603-24.)
- 88. Spraying to control anthracnose on black raspberries. 1918. (Also 31st Rept., p. 625-32.)
- 89. Waid, C.F. Tomato growing in Michigan. 1918. Diseases, p. 6. (Also 31st Rept., p. 646.)
- 93. Eustace, H.J. & Pettit, R.H. Spray and practice outline for fruit growers. 1919. (Also 32nd Rept., p. 517-43.)
- 96. Patten, A.J. & Berger, E.F. Analyses of insecticides and fungicides. 1919. (Also 32nd Rept., p. 568-83.)
- 101. Cox, J.F. Oats in Michigan. 1920. Seed treatment to prevent smut, p. 8-9.
- 102. Dutton, W.C. Dusting and spraying experiments of 1918 and 1919. 1920.

SPECIAL SPRAYING BULLETIN (UNNUMBERED)
1895.

Taft, L.R. When and what to spray. 1895.

TECHNICAL BULLETIN.

No. 1-49. 1908-1920.

Number.

- 6. Harris, J.E. Lime-sulfur spray. 1911. (Also 24th Rept., p. 373-86.)
- 20. McClintock, J.A. Experiments on the control of the root-knot nematode. 1915. (Also 29th Rept., p. 414-34.)
- 25. Levin, E., et al The leaf-spot disease of tomato. 1916. (Also 29th Rept., p. 632-87.)
- 38. Muncie, J.H. Experiments on the control of bean anthracnose and bean blight. 1917. (Also 31st Rept., p. 786-839.)

MICHIGAN AGRICULTURAL EXPERIMENT STATION.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Number.

Mich.-2. Coons, G.H. Factors involved in the growth and the pyonidium formation of *Plenodomus fuscomaculans*. 1916.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.
[1st]-28th. 1888-1920.

The early reports contain little concerning plant diseases, except reprints of bulletins. A Division of vegetable pathology and botany, organized in 1908, issued short administrative reports. After 1915, notes concerning pathological work are found in the reports of various divisions of the station.

Report.

1888, p. 203-08: Insecticides and fungicides on potatoes. D.N. Harper.
1889/90, p. 19-20: Division of botany. O. Lugger.
1890/92: Division of horticulture [Brief note], p. 18. S.B. Green.
1893, p. 215-28: S.B. Green. [Late blight, rot, and scab of potato]. (Same as Bul. 32.)
p. 307-12: List of parasitic plants found near the station.
1894: No pathology.
1895, p. 299-328: Green, S.B. Potatoes...; tomatoes...; small fruits... (Same as Bul. 45.)
[Diseases], p. 307-10, 313-20, 323-28.
1896/97, p. 219-26: Green, S.B. Potatoes, variety tests in 1896. (Same as Bul. 52.)
[Potato blight and scab], p. 425-26.
1898: No pathology.
1899, p. 321-90: Hays, W.M. & Boss, A. Wheat... (Same as Bul. 62.)
Diseases or rusted condition, p. 344.
p. 335-50: Luggar, O. Black rust or summer rust. (Same as Bul. 64)
1900-11th, 1903: No pathology.
12th, 1904, p. 3-31: Green, S.B. Notes on the cultivation of the apple in Minnesota. (Same as Bul. 83.)
Sun scald, fire blight, p. 10-12, 14.
p. 1-178: Washburn, F.L. Injurious insects of 1903. (Same as Bul. 84.)
[Fungicides, treatment, inspection laws], p. 98, 121, 130.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

13th, 1905, p. 1-12: Green, S.B. Potatoes at University Farm. (Same as Bul. 87.)
[Potato diseases], p. 5-9.

p. 228-31: Snyder, H. Rusted wheat. (Same as Bul. 90.)

14th, 1906: No pathology.

15th, 1907,
p. 141-224: Washburn, F.L. The cabbage maggot, etc. (Same as Bul. 100)
[Club root of cabbage], p. 183-9; [Nursery laws],
p. 268-59; Spraying... p. 38-41.

16th, 1908, p. xv: Division of botany and plant pathology. (In Director's Rept.)

17th, 1909,
p. xx-xxii: Division of botany and plant pathology. (In Director's Rept.)

18th, 1910,
p. xxv-xxvii: Division of botany and plant pathology. (In Director's Rept.)

19th, 1911,
p. xxii-xxiv: Division of plant pathology and botany. E.M. Freeman.

20th, 1912,
p. xxv-xxvii: Division of plant pathology and botany. (In Director's Rept.)

21st, 1913, p. 44-53: Division of plant pathology and botany. E.M. Freeman.

22nd, 1914, p. 43-45: Division of plant pathology and botany.

23rd, 1915, p. 47-49: Division of plant pathology and botany.
Northwest Experiment Station, Crookston. C.G. Selvig.
Note on spraying potatoes, p. 61.

24th, 1916:
p. 54-56: Division of agricultural biochemistry. R.W. Thatcher.
[Chemistry of disease resistance], p. 35-36.
Division of agronomy. A. Boss
Genetics of rust resistance, p. 42.
Division of horticulture. V.G. Brierley
[Late blight and curly dwarf of potatoes], p. 52-53.
Division of plant pathology and botany. E.M. Freeman
Duluth Substation.
[Powdery scab of potato], p. 79.

25th, 1917:
p. 61-63: Division of agricultural biochemistry. R.W. Thatcher.
[Biochemistry of disease resistance], p. 37-38.
Division of economic entomology.
[White pine blister rust], p. 54. F.L. Washburn.

26th, 1918:
p. 66-67: Division of plant pathology and botany. E.M. Freeman.
Division of agricultural biochemistry. R.W. Thatcher
[Biochemistry of disease resistance], p. 40-41.
Division of economic entomology. W.A. Riley.
White pine blister rust, p. 56-57.
Division of forestry. E.G. Cheyney
[Damping off disease], p. 59.
Division of plant pathology and botany... E.M. Freeman.
Northwest Experiment Station, Crookston. C.G. Selvig.
Potato disease... control, p. 80.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

27th, 1919: Division of agricultural biochemistry. R.A. Gortner.
[Biochemistry of disease resistance], p. 34-36.

Division of agronomy, etc.
[Breeding resistant cereals and flax], p. 39.

Division of entomology. W.A. Riley.
White pine blister rust, p. 48.

p. 54-56: Division of plant pathology and botany. E.M. Freeman.
Northwest Experiment Station, Crookston. C.G. Selvig.
Potato disease control, p. 71-72.

28th, 1920: Division of agricultural biochemistry. R.A. Gortner.
[Biochemistry of disease resistance], p. 27-28.

Division of agronomy. A. Boss
[Breeding resistant cereals and timothy], p. 34-35.

Division of entomology. W.A. Riley.
[White pine blister rust], p. 43-44.
Barberry eradication, p. 44.

Division of forestry. E.G. Cheney
White pine blister rust control, p. 45.

p. 51-54: Division of plant pathology and botany. E.M. Freeman.
Northwest experiment station, Crookston.
Seed treatment for potatoes, p. 67-68.

BULLETIN.

No. 1-194. 1888-1920.

Number.

5. Lugger, O. Frosted and rusted wheat, p. 46-47. 1889.

6. Experiments with frosted, rusted and stack-burned wheat. 1889.
Porter, E.D. Notes on the effects of frost and rust
on the germination of wheat, p. 5-10.

Green, S.B. Experiments in germination and growth of
damaged wheat and barley, p. 11-28.

7. Harper, D.N. On the chemistry of [rusted or frosted] wheat, p. 65-
84. 1889.

11. _____ Results of seeding rusted, frosted and frozen wheat of
1888.
Further observations, p. 99-116. 1890.

12. Hazen, H.A. Protection from frost, p. 127-32. 1890.

13. Lugger, O. A treatise on flax culture. 1890.
Diseases of flax, p. 20-25.

25. Spraying of grape vines [for mildew], p. 252-53. 1892.

32. Green, S.B. Late blight and rot of the potato. Potato scab,
p. 222-28. 1893. (Also in Rept. 1893, p. 215-28.)

39. _____ Potato scab, blight and internal brown rot... apple-tree
sun-scald; raspberries... cane rust. 1895.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

40. Hays, W.M. Grain and forage crops. 1894.
Smut in wheat, p. 289-92.

45. Green, S.B. Potatoes... treatment for scab and blight, internal brown rot. Tomatoes... treatment for rot... Spray pumps... 1895. (Also in Rept. 1895, p. 299-328.)

46. Hays, W.M. Smut in wheat, p. 362- 68. 1895. (Also in Rept. 1896, p. 362-68.)

52. Green, S.B. Potatoes, variety tests in 1896. 1896.
Potato blight, scab, p. 425-46. (Also in Rept. 1897, p. 425-46.)

64. Lugger, O. The black rust or summer rust, p. 535-50. 1899.
(Also in Rept. 1899, p. 535-50.)

83. Green, S.B. Apples and apple growing in Minnesota. 1903.
Sunscald, p.10-11; fire blight, p.14. (Also in 12th Rept., p. 10-12, 14.)

84. Washburn, F.L. Injurious insects of 1903. 1903.
[Fungicides, fungous diseases... with their remedies], p. 98-125. (Also in 12th Rept., p.98-125.)
Nursery inspection, p.130-48. (Minnesota bill and digest of state laws). (Also in 12th Rept., p.130-48.)

90. Snyder, H. Rusted wheat, p. 228-31. 1905. (Also in 13th Rept., p. 228-31.)

100. Washburn,F.L. The cabbage maggot and other injurious insects of 1906. 1906.
Club root; nursery inspection; spraying, p. 18-19, 26-41. (Also in 15th Rept., p. 158-59, 166-81.)

112. _____ Two years work with the apple leaf hopper... 1908.
Spraying... p. 214-27.
Crown gall on Minnesota raspberries, p. 235-41.

114. Kohler, A.R. Potato experiments and studies at University farm... 1909.
Experiment on use of potatoes affected with brown rot for seed, p. 324-32.
Diseases, p. 356-62.

118. _____ Potato experiments and studies at University farm in 1909. 1910.
Experiments in spraying potatoes for diseases, p. 111-20.

121. Ruggles,A.G. & Orchard and garden spraying. 1911.
Stakman,E.C.

122. Freeman,E.M. & The smuts of grain crops. 1911.
Stakman,E.C. Revised and reprinted. 1914.

133. Stakman, E.C. Spore germinations of cereal smuts. 1913.

138. _____ A study in cereal rusts: physiological races. 1914.

153. _____ & Tollass, A.G. Fruit and vegetable diseases and their control. 1916.

158. _____ Potato diseases and their control. 1916.

160. Stakman,E.C. & Levine,M.N. Rye smut. 1916.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

181. Bisby, C.R. Studies on Fusarium diseases of potatoes and truck crops in Minnesota. 1919.
190. _____ & Tolaaas, A.G. Potato diseases in Minnesota. 1920.
191. Stakman, L.J. A Helminthosporium disease of wheat and rye. 1920.
192. Bisby, G.R. & Tolass, A.G. The use of Bordeaux mixture for spraying potatoes. 1920.

PRESS BULLETIN.

No. 1-43. 1894-1913.

1. Hays, W.M. Smut in wheat. 1894.
3. _____ Smut in wheat. 1895.
6. _____ Smut in wheat. 1896.
27. A hint to flax growers [regarding flax wilt]. 1907.
31. Washburn, F.L. Suggestions to those contemplating spraying. 1909.

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Minn.-4. Stakman, E.C. Relation between Puccinia graminis and plants highly resistant to its attack. 1915.
Minn.-6. _____ & Jensen, L. Infection experiments with timothy rust. 1915.
Minn.-7. Valleau, W.D. Varietal resistance of plums to brown-rot. 1915.
Minn.-10. Stakman, E.C. & Piemeisel, F.J. Infection of timothy by Puccinia graminis. 1916.
Minn.-19. _____ Biologic forms of Puccinia graminis on cereals and grasses. 1917.
Minn.-21. Moore, W. Studies in greenhouse fumigation with hydrocyanic acid; physiological effects on the plant. 1917.
Minn.-30. Levine, M.N. & Stakman, E.C. A third biologic form of Puccinia graminis on wheat. 1918.
Minn.-31. Stakman, E.C. et al Can biologic forms of stemrust on wheat change rapidly enough to interfere with breeding for rust resistance? 1918.
Minn.-33. Stakman, E.C. et al Plasticity of biologic forms of Puccinia graminis. 1918.

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Number.

Minn.-35. Stakman, E.C. & Levine, M.N. Effect of certain ecological factors on the morphology of the urediniospores of *Puccinia graminis*. 1919.

Minn.-36. _____ New biologic forms of *Puccinia graminis*. Preliminary paper. 1919.

Minn.-41. Hayes, H.K., et al Genetics of rust resistance in crosses of varieties on *Triticum vulgare* with varieties of *T. durum* and *T. dicoccum*. 1920.

MINNESOTA NORTHWEST EXPERIMENT STATION.

REPORT.
1910-1919.

These reports appeared in Bulletin of the Minnesota University, Department of agriculture, Crookston series, v. 1, 10-13. They contain notes of experiments on the control of potato diseases.

1910/16, p. 65-68: [Potatoes] - tuber and leaf diseases.
1917/18, p. 51-55: Potato disease treatment, p. 51-55.
1919, p. 28-29: Seed treatment for tuber diseases, p. 28-29.

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-23d. 1888-1909.

Report.

1st, 1888-

7th, 1894: No pathology.

8th, 1895:

Report of director.

S.M. Tracy.

[Plant diseases], p. 48, 66, 75-78.

9th, 1896-

11th, 1898: No pathology.

12th, 1899,

Report of the botanist and entomologist.

G.W. Herrick.

p. 42-47:

Tomato blight, p. 43-44.

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

13th, 1900, Report of the botanist and entomologist. G.W. Herrick.
p. 40-42: Tomato blight, p. 40-41.
14th, 1901, Report of the botanist and entomologist.
p. 26-28: [Sephærotheca pannosa on the rose], p. 28.
15th, 1902-
23d, 1910: No pathology.

BULLETIN.

No. 1-198. 1888-1921.

Number.

19. Halsted, B.D. The southern tomato blight. 1892.
22. Tracy, S.M. & Grapes. 1892.
Earle, F.S. Diseases, p. 8, 13-16.
34. _____ Mississippi fungi. 1895.

38. _____ Mississippi fungi. 1896.
(Continuation of Bulletin 34.)
96. Herrick, G.W. Insects and diseases liable to be introduced into
Mississippi. 1906.
102. _____ How to control injurious insects and noxious plant
diseases. 1907.
140. Hibbard, R.P. Cotton diseases in Mississippi. 1910.
141. Thompson, H.C. Control of diseases of fruits, vegetables, and flow-
ers. 1910.
169. Cotton experiments, 1914. 1914.
Ewing, E.C. & Ricks, J.R. Results from the Central
station. Variety test on wilt infested land, p. 6-7.
173. Brown, H.B. Cotton experiments, 1915. 1916.
Cotton wilt experiment at Central station, 1915,
p. 12.
184. Brown, H.B. & Cotton experiments, 1917. 1918.
Ames, C.T. Study of wilt resistance, College station, 1917,
p. 8-10.
186. Brown, H.B. Cotton experiments, 1918. 1919.
Study of wilt resistance, p. 9-11.
190. Neal, D.G. Diseases of the sweet potato in Mississippi and
their control. 1920.
191. Miles, L.C. The mosaic disease of sugar cane in Mississippi in
1920. 1920.
195. Snapp, O.I. & Experiments in dusting and spraying peaches for the
Pierce, L. control of curculio, brown rot and scab. 1920.

MISSISSIPPI AGRICULTURE EXPERIMENT STATION.

CIRCULAR.
[Unnumbered]. 1905-1915.

The insect pest law. 1908.
(Includes diseases.)

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

1916-1920.

Number.

Miss.-1. Brown, H. B. Life history and poisonous properties of Claviceps paspali. 1916.

MISSOURI AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.
1888-1919/20. 1889-1920.

Beginning in 1912 the annual report was issued in the bulletin series with the title "Work and progress of the station". Under the headings "Botany" and "Horticulture" are found notes on the progress of the various projects in plant pathology.

Report.

1st, 1888: No pathology.
1889-95: No reports issued.
1896-1904: No pathology.
1905-1908: No reports issued.
1909/10-
 1910/11: No pathology.
 1911/12: (Issued as Bul. 111.)
 p. 216: Abstr. of Bul. 102.
 1912/13: (Issued as Bul. 117.)
 p. 413: Abstr. of Circ. 63.
 p. 420-21: Botany department.
 p. 427-28: Department of horticulture.
 1913/14: (Issued as Bul. 131.)
 p. 459: Abstr. of Research Bul. 8.
 1914/15: (Issued as Bul. 141.)
 p. 12: Abstr. of Bul. 124.
 p. 25-26: Botany.
 p. 32-36: Horticulture.
 1915/16: (Issued as Bul. 147.)
 p. 16: Abstr. of Research Bul. 23.
 p. 27-29: Botany.
 p. 40-47: Horticulture.
 1916/17: (Issued as Bul. 151.)
 p. 30-33: Botany.
 p. 46-53: Horticulture.
 1917/18: (Issued as Bul. 163.)
 p. 31-33: Botany.
 p. 52-62: Horticulture.
 1918/19: (Issued as Bul. 172.)
 p. 19-20: Plant diseases.
 1919/20: (Issued as Bul. 179.)
 p. 21-22: Botany.
 p. 38-43: Horticulture.

BULLETIN.

No. 1-180. 1888-1920.

Number.

10. Clark, J. W. Experiments with Bordeaux mixture upon the grape rot (Laestadia Bidwellis), p. 5-6. 1890.
13. _____ Reports on spraying for the codling moth, apple scab and black rot of the grape, p. 5-7. 1891.

MISSOURI AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

16. Clark, J. W. Covering peach trees to protect the first buds, p. 3-8.
23. Keffer, C.A. Spread of pear blight, p. 8-10. 1891.
Grape culture. 1893.
27. Spraying [for brown or black rot], p. 22-26.
Spraying apple trees for destruction of insects, and prevention of fungous diseases. 1894.
30. Lodeman, E.G. Spray calendar. 1895.
31. Whitten, J.C. Spraying orchards and vineyards. 1895.
38. Winter protection of the peach. Peach growing in Missouri. 1897.
50. Booth, N.O. A test of spray nozzles. 1900.
60. Bird, R.M. A new Bordeaux powder. 1903.
69. Reed, H.S. Three fungous diseases of the cultivated ginseng. 1905.
74. Chandler, W.H. The winter killing of peach buds as influenced by previous treatment. 1907.
102. Combating orchard and garden enemies. 1912. (Abstr. in Ann. Rept. 1911/12, (Bul. 111), p. 216)
124. Howard, W.L. Profits from spraying twenty-five Missouri orchards in 1914. 1915. (Abstr. in Ann. Rept. 1914/15 (Bul. 141), p. 12.).

Bul. 96, 101, 111, 117, 131, 141, 147, 151, 163, 172, 179 are annual reports which contain results of investigations in plant pathology.

CIRCULAR
No. 1-104. 1896-1921.

(No. 1-35 entitled Circular of information.)

10. Booth, N.O. Spray calendar. 1902.
20. Bird, R.M. Directions for making Bordeaux powder. 1905.
21. Floyd, B.F. Some fungous diseases and their treatment. 1905.
23. Favor, E.H. Fungicides, insecticides and spray calendar. 1906.
31. Chandler, W.H. Hardiness of peach buds, blossoms and young fruit as influenced by the care of the orchard. 1908.
34. Instructions for spraying. 1908.
35. Howard, W.L. Protecting orchards against frosts and freezes. 1909.
63. Inspection service, control of insect pests and plant diseases. 1913. (Abstr. in Ann. Rept. 1912/13 (Bul. 117), p. 413.)
99. Haseman, L. Federal and state laws, regulating the propagation and distribution of nursery stock. 1920.
101. Sullivan, K.C. Plant inspection in Missouri. 1920.

MISSOURI AGRICULTURAL EXPERIMENT STATION.

NEWSPAPER BULLETIN
No. [1]-19. 1896-1903.

Number.

[1]. Prevention of rot in apples, grapes and plums. 1896.
9. Winter protection of the peach. 1897.
19. A new Bordeaux powder. 1903.

PRESS BULLETIN.
No. 1-291. 1912-1917.

Multigraphed

Contain popular notes on plant diseases.

RESEARCH BULLETIN.
No. 1-40. 1910-1920.

Number.

8. Chandler, W.H. The killing of plant tissue by low temperature. 1913.
(Abstr. in Ann.Rept. 1913/14 (Bul.131), p.457.)
23. Reed, G.M. The powdery mildews of Avena and Triticum. 1916.
(Abstr. in Ann.Rept. 1915/16 (Bul.147), p.16.)
37. Varietal resistance and susceptibility of oats to
powdery mildews, crown rust and smuts. 1920.

MISSOURI STATE FRUIT EXPERIMENT STATION.

BIENNIAL REPORT.
1899/1900-1917/18. 1901-1918 [1919]

The administrative report of the manager contains scattered references to the work on cooperative spraying and spraying demonstrations. A report of the plant pathologist appeared in a few reports.

Report.

1st, 1900, p.8-15: Report of manager. J.T. Stinson.
1901/02, p.7-15: [Report of manager] _____
1903/04: No pathology.
1905/06, p.5-9: Manager's report. P. Evans.

MISSOURI STATE FRUIT EXPERIMENT STATION.

BIENNIAL REPORT (Cont.)

Report.

1907/08, p.5-9:	Manager's report.	P. Evans.
p.16-18:	Report of plant pathologist.	F.M. Rolfs.
1909/10, p.7-12:	Director's report.	P. Evans.
1911/12, p.3-9:	Director's report.	
1913/14, p.19-32:	Report of pathologist.	D.H. Rose.
1915/16:	No pathology.	
1917/18, p.8-11:	Report of the director.	F.W. Faurot.

BULLETIN.

No. 1-25. 1901-1915.

Number.

1. Stinson, J.T.	Preliminary report on bitter rot or ripe rot of apples. 1901.
2. _____	Notes on spraying for bitter rot. 1902.
4. Faurot, F.W. & Stinson, J.T.	Winter treatment of orchards and remarks on cultivation. 1902.
5. _____	Notes on spraying and spray machinery. 1902.
6. Faurot, F.W.	Report on fungous diseases occurring on cultivated fruits during the season of 1902. 1903.
11. Evans, P.	Peach rosette. 1904.
14. Faurot, F.W.	Preliminary experiments in dipping nursery stock. 1906.
15. _____	Demonstration spraying for bitter rot and codling moth. 1906.
16. Rolfs, F.M.	Fruit tree diseases and fungicides. 1907.
17. _____	Winter killing of twigs, cankers, and sun scald of peach trees. 1910.
19. Faurot, F.W.	Spraying versus dusting. 1908.
20. _____	Spraying machinery. 1908.
22. _____	Spraying machinery. 1912.
23. _____	Common orchard troubles, spray mixtures and spray calendar. 1912.

CIRCULAR

No. 1-18. 1902-1919.

1. Twig blight.	1902.
3. Rolfs, F.M.	Pear blight. 1906.
5. Faurot, F.W.	Spray calendar. 1911.
6. _____	Spray calendar. 1913.
7. Sommes, M.P.	Winter work in orchards. 1914.

MISSOURI STATE FRUIT EXPERIMENT STATION

CIRCULAR (Cont.)

Number.

8. Soumès, M.P. Does spraying pay? 1914.
9. _____ Spray schedule for grapes. 1915.
10. Rose, D.H. Effect of various dressings on pruning wounds of
apple trees. 1917.
11. _____ Spray schedule for grapes. 1918.
18. Faurot, F.W. Spray calendar and spray mixtures. 1919.

[MISCELLANEOUS].

1902.

Spray calendar. 1902.

MONTANA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-26th. 1893/94-1918/19.

Contains short progress report concerning work in plant pathology.

Report.

1st, 1893/94: (Issued as Bul. 5)
p. 141-42: Report of agriculturist and botanist. L. Foster.
2nd, 1894/95: (Issued as Bul. 8)
p. 202-06: Report of agriculturist and botanist. F.W. Traphagen.
3rd, 1895/96: (Issued as Bul. 12)
p. 104: Corrosive sublimate for potato scab.
p. 105-06: Treatment for smut in wheat, barley and oats.
4th, 1896/97: (Issued as Bul. 16) No pathology.
5th, 1897/98: (Issued as Bul. 20)
p. 119-21: Botanist Report no. 1-2. H.S. Jennings.
p. 121-22: Report of biologist. E.V. Wilcox.
6th, 1898/99: (Issued as Bul. 24) No pathology.
7th, 1899/1900: (Issued as Bul. 28)
p. 14-16: Report of the botanist. J.W. Blankinship.

MONTANA AGRICULTURAL EXPERIMENT STATION

ANNUAL REPORT (Cont.)

Report.

8th, 1900/01:	(Issued as Bul. 32)	
p. 16-34:	Agricultural department.	R. S. Shaw.
p. 38-44:	Botanical department.	J. W. Blankinship.
9th, 1902,		
p. 68-79:	Botanical department.	
p. 88-95:	Horticultural department.	R. W. Fisher.
10th, 1903:	No pathology.	
11th, 1903/04,		
p. 219-24:	Botanical department.	J. W. Blankinship.
12th, 1904/05:	No pathology.	
13th, 1905/06,		
p. 128-31:	Biological department.	R. A. Cooley.
14th, 1906/07,		
p. 169-70:	Biological department. (In Director's Rept.)	
15th, 1907/08,		
p. 174:	Biological department. (In Director's Rept.)	
16th, 1908/09,		
p. 73-74:	Biological department. (In Director's Rept.)	
17th, 1909/10,		
p. 246-47:	Biology department. (In Director's Rept.)	
18th, 1910/11,		
p. 123-24:	Biology department. (In Director's Rept.)	
19th, 1912/13,		
p. 78-79:	Biology. (In Director's Rept.)	
20th, 1912/13,		
p. 152-54:	Biology department. (In Director's Rept.)	
21st, 1913/14,		
p. 389-91:	Biology department. (In Director's Rept.)	
22nd, 1914/15,		
p. 240-41:	The botany and bacteriology department.	D. B. Swingle.
p. 247-50:	The chemistry department.	E. Burke.
	A study of tree injury caused by abnormal food supplies, p. 249-50.	
23rd, 1915/16,		
p. 163-65:	The botany and bacteriology department.	D. B. Swingle.
24th, 1916/17,		
p. 236-37:	The botany and bacteriology department.	
25th, 1917/18,		
p. 157-59:	Department of botany and bacteriology.	
	[History of station work on plant pathology], p. 158-59.	
26th, 1918/19,		
p. 24-26:	Department of botany and bacteriology.	D. B. Swingle.

MONTANA AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-136. 1894-1920.

Number.

2. Foster, L. Smuts of wheat, oats and barley. 1894.
9. _____ Potatoes. 1896.
10. _____ Treatment to prevent scab, p. 22-24.
22. Wilcox, E. V. Small grains: Wheat, oats and barley. 1896.
Methods of preventing smuts, p. 40-46.
The resistance of strawberries to frost; Potato scab;
Treatment of seed oats for smut... 1899.
91. Whipple, O. B. Winter injury to fruit buds of the apple and the pear.
1912.
96. Morris, H. E. A contribution to our knowledge of apple scab. 1914.
121. Swingle, D. B. & Crown-gall injury in the orchard. 1918.
Morris, H. E.
123. Swingle, D. B. Plum pocket and leaf gall on Americana plums. 1918.
(Partially reprinted as Circular 77.)
130. Whipple, O. B. Degeneration in potatoes. 1919.

Bul. 5, 8, 12, 16, 20, 24, 28, 32 are the annual reports for 1893/94 to 1900/01.

CIRCULAR 1.

No. 1-94. 1901, 1908-1920.

2. Swingle, D. B. The pear and apple blight in Montana. 1910.
Revised. 1911.
17. Cooley, R. A. & Swingle, D. B. A spraying program for Montana orchards. 1912.
36. Morris, H. E. & Parker, J. R. Fungicides and insecticides for Montana. 1914.
37. Swingle, D. B. Fruit diseases in Montana. 1914.
39. _____ The status of investigational work on pear and apple
blight. 1914.
70. _____ Grain smuts. 1917.
77. Swingle, D. B. & Morris, H. E. Plum pocket and leaf gall on Americana plums. 1918.
(Partial reprint of Bulletin 123)

[LEAFLET. UNNUMBERED]

Crown gall. 1913.

MONTANA AGRICULTURAL EXPERIMENT STATION.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Number.

Mont.-4. Swingle, D.B. & Arsenical injury through the bark of fruit
Morris, H.E. trees. 1917.
Mont.-6. Blish, M.J. Effect of premature freezing on the composition
of fruit buds. 1920.

PRESS BULLETIN.

No. 1-4. 1894-1895(?)

1. Foster, L. Smut in wheat and oats. 1894.
3. Potato scab. 1895 (?).

NEBRASKA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33d. 1887-1919.

A few of these reports contain signed and illustrated articles, but most of them are administrative reports containing only short paragraphs describing work on plant diseases by the section of botany, or on spraying by the section of horticulture.

Report.

1st, 1887:	No pathology.	
2nd, 1888, p.15:	Economic botany.	C.E. Bessey.
3d, 1889, p.12-13:	Economic botany.	
4th, 1890, p.8-10:	Economic botany.	
5th, 1891, p.9-13:	Botany. Fungous diseases of plants, p.12.	
6th, 1892, p.8-10:	Botany. Fungous diseases of sugar beets, p.9. Diseases of plants in Nebraska, p.10.	
7th, 1893, p.9-13:	Botany. Fungous diseases of plants, p.9-10.	

NEBRASKA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.			
8th, 1894,	Botany.		C.E. Bessey.
p.xiii-xvi:	Fungous diseases of plants, p. xiv.		
p.xix-xxiii:	Horticulture.		F.W. Card.
	Blight, p. xxii; spraying, p. xxiii.		
9th, 1895,	Botany.		C.E. Bessey.
p.xiii-xv:	Fungi and fungous diseases, p. xiv.		
p.xix-xxiii:	Horticulture.		F.W. Card.
	Blight, p. xxii.		
10th, 1896,	Botany.		C.E. Bessey.
p.xiii-xiv:	[Plant diseases], p. xiv.		
p.xxiv-xxviii:	Horticulture.		F.W. Card.
	Apple blight, p. xxiv-xxv.		
11th, 1897,	Botany.		C.E. Bessey.
p.xvii-xx:	Injurious fungi, p. xix.		
12th, 1898,	Botany.		
p.xxv-xxxiii:	Diseases of plants, p. xxvi-xxviii.		
13th, 1899,	Botany.		
p.28-34:	Diseases of plants, p. 28-29.		
14th, 1900,			
p.viii:	Plant diseases. (In Director's Rept.)		
p.29-48:	Nicholson, H.H. & Lyon, T.L. Experiments in the culture of the sugar beet.		
	Leaf spot disease (<i>Cercospora beticola</i>), p. 45-48.		
	(Abstr. in Bul. 67, p. 20-21.)		
15th, 1901-			
16th, 1902:	No pathology.		
17th, 1903,			
p.23-32:	Sheldon, J.L. A corn mold (<i>Fusarium moniliforme</i> n.sp.)		
p.69-112:	Metcalf, H. A soft rot of the sugar beet (<i>Bacterium teutlum</i> Metcalf.)		
18th, 1904, p.7:	[Plant diseases] (In Director's Rept.)		
19th, 1905,			
p.9-10:	Plant diseases. (In Director's report.)		
p.20-81:	Heald, F.D. Report on the plant diseases prevalent in Nebraska during the season of 1905.		
p.82-91:	The black-rot of apples due to <i>Sclerotinia fructigena</i> .		
p.92-100:	A disease of the cottonwood due to <i>Elfvingia negaloma</i> .		
20th, 1906,			
p.xvii-xviii:	[Plant diseases] (In Director's Rept.)		
21st, 1907,			
p.xvii-xviii:	Spraying apple orchards.		
p.1-33:	Pool, V.W. Some tomato fruit rots during 1907.		
p.34-44:	Walker, L.B. A new form of <i>Sphaeropsis</i> on apples.		
p.45-53:	Heald, F.D. Seed treatment for the smuts of winter barley.		
p.69-72:	Wolf, F.A. A rot of grapes due to <i>Pestalozzia uvicola</i> Spegaz.		

NEBRASKA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.).

Report.
22nd, 1908,
p.1-18: Heald, F.D., Wilcox, E.M. & Pool, V.W. The life-history and parasitism of *Diplodia zeae* (Schw.) Lev.
p.22-63: Wilcox, E.M. & Stone, R.E. Directions for the control of Nebraska plant diseases.
p.103-[127]: Heald, F.D. The life history of the cedar rust fungus *Gymnosporangium juniperi-virginianae* Schw.
p.130-[134]: Heald, F.D. & Pool, V.W. The influence of chemical stimulation upon the production of perithecia by *Melanospore pampeana* Speg.
23rd, 1909, p.viii: Plant diseases (In Director's Report)
24th, 1910, p. ix: Plant diseases (In Director's Report)
25th, 1913, p.x: Plant diseases. (In Director's Report)
p.215-242: Coons, G.H. Some investigations of the cedar rust fungus, *Gymnosporangium juniperi-virginianae*.
26th, 1912-33d, 1919: Contains short paragraphs on plant disease work in Director's Report.

BULLETIN.

No. 1-177. 1837-1921.

Number.

11. Arthur, J.C. Smut of wheat and oats, p. 1-24.
Bessey, C.E. Smut of Indian corn, p.25-36.
Webber, H.J. A preliminary enumeration of the rusts and smuts of Nebraska, p. 37-82.
Pound, R. Notes on the fungi of economic interest observed in Lancaster County, Nebraska, during the summer of 1889, p. 85-92. 1889.
27. Nicholson, H.H. & Lyon, T.L. Experiments in the culture of the sugar beet in Nebraska. 1893.
Bessey, C.E. Fungous diseases of sugar beets, p. 27-29.
39. Card, F.W. Some obstacles to successful fruit growing. 1895.
48. _____ Windbreaks. 1897.
[Injurious effects], p.71-73, 78-79, 95-96.
73. Lyon, T.L. & Wiancko, A.T. Experiments in the culture of the sugar beet in Nebraska. 1902.
Diseases of sugar beets, p.21-24.
88. Emerson, R.A. Apple scab and cedar rust. 1905.
89. Lyon, T.L. & Keyser, A. Winter wheat. 1905.
[Scab or "blight" (*Fusarium culmorum*)], p.7-10.
Nature and causes of "yellow berry" in hard winter wheat, p. 23-26.
98. Emerson, R.A. Spraying demonstration in Nebraska apple orchards. 1907.

NEBRASKA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

103. Heald, F.D. The bud-rot of carnations, p.3-24. 1908.
106. Emerson, R.A. & Does it pay to spray Nebraska apple orchards? 1908.
Denny, F.E.
119. Emerson, R.A. Spraying as an essential part of profitable apple
et al orcharding. 1911.
131. Wilcox, E.M. Smuts of Nebraska cereals. 1912.
134. _____ & A dry rot of the Irish potato tuber. 1913.
Link, G.K.K. (Pop. ed. of Research Bul. 1)
158. Cooper, J.R. Why, when, and how to spray. 1917.
(Pop. ed. of Research Bul. 10)
161. _____ Methods of controlling blister canker. 1917.
(Pop. ed. of Research Bul. 12)
163. Kiesselbach, T.A. Freezing injury of seed corn. 1918.
& Ratcliff, J.A. (Pop. ed. of Research Bul. 16)

PRESS BULLETIN.

No. 1-46. 1890-1915.

2. Bessey, C.E. Wheat rust. 1906.
23. Heald, F.D. & Ergot and ergotism. 1906.
Peters, A.T.
28. Heald, F.D. Bunt, or stinking smut of wheat. 1908.
37. Howard, R.F. Spraying apple trees. 1912.
40. Wilcox, E.M. Potato pointers. 1913.

RESEARCH BULLETIN.

No. 1-19. 1913-1921.

1. Wilcox, E.M. A dry rot of the Irish potato tuber. 1912. (For
et al Pop. ed. see Bul. 134)
9. Link, G.K.K. A physiological study of two strains of Fusarium
in their causal relation to tuber rot and wilt
of potato. 1916.
10. Cooper, J.R. Spraying experiments in Nebraska. 1917. (For Pop.
Ed. see Bul. 158)
12. _____ Studies of the etiology and control of blister canker
on apple trees. 1917. (For Pop. ed. see Bul. 161)
14. Cromwell, R.O. Fusarium blight of the soy bean and the relation of
various factors to infection. 1919. (For Pop.
ed. see Bul. 163)
16. Kiesselbach, T.A. Freezing injury to seed corn. 1920. (For Pop. ed.
& Ratcliff, J.A. see Bul. 163)

NEVADA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1888-1919.

Earlier reports contain no pathology; later reports contain short administrative paragraphs on plant disease work.

Report.

1st, 1888-

4th, 1891: No pathology.

5th, 1892,

p.11-15: Jensen hot water treatment for smut in oats and wheat.
Extracts from Bul. 87 Mich. Agr. Exp. Stat.

6th, 1893-

10th, 1897: No pathology.

1898-1901:

No reports published.

1902-1905:

No pathology.

1906, p.21:

Plant diseases. (In Director's Report)

1907:

(Issued as Bul. 63.)

p.52-53: Fire blight in fruit trees. (In Rept. Dept. Vet. Sci.
& Bact.)

W.B. Mack.

1908:

(Issued as Bul. 66.)

p.62-64: Fire blight in fruit trees. (In Rept. Dept. Vet. Sci.
& Bact.)

W.B. Mack.

1909-1911:

No pathology.

1912, p.30:

Plant diseases. (In Rept. Dept. Bot. Hort.
& For.)

R.B. Kennedy &

A.A. Heller.

1913, p.44:

Plant diseases. (In Rept. Dept. Bot. Hort.
& For.)

1914-1919:

No pathology.

BULLETIN.

No. 1-9. 1889-1920.

Number.

76. Doten, S.B. &
Frandsen, P.

The potato eel worm. 1911.

76. _____

The potato eel worm. Italian translation by Marie
Trosi. 1911.

CIRCULAR.

No. 1-19. 1909-1915(?)

5. Doten, S.B.

Inspection of nursery stock. 1910.

NEVADA AGRICULTURAL EXPERIMENT STATION.

NEWSPAPER BULLETIN.

No. 4-29. 1893-1899.

Number.

7. Hillman, F.H. Spraying machinery. 1893.
14. Wilson, N.E. Is there danger of poisoning from eating sprayed fruit?
1894.
22. Hillman, F.H. Dodder-love-vine - a bad weed. 1897.
26. _____ Potato scab. 1899.
29. _____ An experiment with potato scab. 1899.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-24th. 1880-1918.

Report.

1st, 1888-2nd, 1890,
[i.e. 1889]: No pathology.
3d/4th, 1890/92, Report of bacteriological and microscop-
ical department. H.H. Lamson.
p.216-20: H.H. Lamson. Fungous diseases of plants.
p.221-241: 5th, 1893, p.160-68: Report of bacteriologist.
6th, 1894, p.127-31: Report of bact. and photographer. _____
7th, 1895: (Issued as Bul. 3.)
p.18-19: Report of bacteriologist. _____
8th, 1896: (Issued as Bul. 40.) No pathology. _____
9th, 1897: (Issued as Bul. 48.)
p.146-47: Department of bacteriology. _____
10th, 1898: (Issued as Bul. 59.) No pathology. _____
11th, 1899: (Issued as Bul. 68.)
p.158-64: Department of bacteriology. _____
12th, 1900: (Issued as Bul. 79.)
p.25-33: Department of bacteriology. _____
13th, 1901: (Issued as Bul. 87.)
p.127-30: Department of bacteriology. _____
14th, 1902: (Issued as Bul. 96.)
p.135-36: Department of bacteriology. _____
15th, 1903-16th, 1904: No pathology.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

17th/18th, 1905/06:	(Issued as Bul. 129.)	
p.267-75:	Department of botany.	C. Brooks.
19th/20th, 1907/08:		_____
p.330-89:	Report of Department of botany.	_____
21st/22nd, 1909/10:	(Issued as Bul. 151.)	
p.21-23:	Report of Department of botany.	_____
23rd/24th, 1911/12:	(Issued as Bul. 163.)	
p.16-17:	Report of Department of botany.	O.R. Butler.
1913-1917:	No reports.	
1918:	(Issued as Bul. 192.)	
p.17-20:	Report of Department of botany.	_____

BULLETIN.

No. 1-197. 1888-1920.

Number.

19. Lamson, H.H.	Spraying apples and pears against fungi. 1894.
22. _____	Prevention of potato blight. 1894.
27. _____	Spraying experiments in 1894. 1895.
41. Rane, F.W. & Hunt, L.	Potatoes: Varieties, fertilizers and scab. 1897.
45. Lamson, H.H.	Fruit and potato diseases. 1897.
65. _____	Notes on apple and potato diseases. 1899.
93. The cold storage of apples.	1903.
	Rane, F.W. Apples in cold storage [keeping qualities], p.71-74.
	Lamson, H.H. Influence of cold storage on the decay of apples, p.75-81.
101. Lamson, H.H.	Fungous diseases and spraying. 1903.
110. Rane, F.W.	Experiments in orchard management in New England. 1904.
	Spraying orchards, p. 97-103.
131. Sanderson, E.D. et al	Spraying the apple orchard. 1907.
144. Brooks, C.	Some apple diseases. 1909.
157. _____	Some apple diseases and their treatment. 1912.
161. _____	Fungicides in the apple orchards. 1912.
183. O'Kane, W.C. et al	Arsenical residues after spraying. 1917.
	I. Residues of lead arsenate on fruit and vegetables, p. 8-23.

Bul. 31, 40, 48, 59, 68, 72, 87, 96, 104, 115, 129, 151, 163, 192 are annual reports 1894/95-1911/12, 1917/18 which contain results of investigations in plant pathology.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION.

CIRCULAR.

No. 1-23. 1908-1920.

Number.

15. Butler, O. Notes on the preparation of Bordeaux mixture. 1914.
17. Gourley, J.H. Spraying and thinning notes, 1914. 1915.
19. Prince, F.S. Potato seed certification in New Hampshire. 1918.
22. Butler, O.R. Spraying for late blight of potatoes. 1920.

SCIENTIFIC CONTRIBUTIONS.

No. 1-16. 1908-1920.

1. Brooks, C. The fruit spot of apples. 1908.
(Reprint from Bul. Torrey Bot. Club, v.35, p.423-56. 1908.)
5. _____ & Apple fruit spot and quince blotch. 1912.
Black, C.A. (Reprint from Phytopathology, v.2, p.63-72.)
6. Brooks, C. & Apple leaf spot. 1912.
Deberitt, M. (Reprint from Phytopathology, v.2, p.181-90.)
8. Brooks, C. Blossom-end rot of tomatoes. 1914.
(Reprint from Phytopathology, v.4, p.345-74.)
9. Butler, O. Methods of preparation and relative value of Bordeaux
mixtures. 1915.
(Reprint from Off. Rpt. Internat. Cong. Vit., 1915,
p. 151-60.)
10. _____ The cuprammonium washes, their preparation, biological
properties and applications. 1917.
(Reprint from Phytopathology, v.7, p.235-68.)

TECHNICAL BULLETIN.

No. 1-17. 1901-1921.

8. Butler, O.R. Bordeaux mixture. I. Physio-chemical studies. 1914.
(Reprinted in Phytopathology, v. 4, p. 125-180.
1915.)

NEW JERSEY AGRICULTURAL EXPERIMENT STATIONS.

ANNUAL REPORT.

1st-40th. 1880-1919. 1881-1920.

New Jersey has two independent stations, the New Jersey state agricultural experiment station organized in 1830, and the New Jersey agricultural college experiment station, organized in 1888. The first report of the college station was issued with the ninth report of the state station and thereafter the reports are issued in a single volume, both numbers appearing on the title page. The numbering here given is that for the state station. The bulletins of the two stations are numbered as one series.

From the 10th report for 1889 through the 24th, 1903, the report of the botanist is devoted almost exclusively to plant disease studies. These reports are detailed and often illustrated. Beginning with the 26th report, in 1903, the botanist's report still contains notes on plant diseases, but is not so exclusively devoted to pathology as the earlier reports. A little later notes on diseases and spraying appear in the report of the horticulturist, and in 1911 a separate department of plant pathology was established, which has published extended reports, containing signed articles by various authors. These have appeared as separates with original pagination. Contents are not given for the reports of the botanist which are devoted exclusively to pathology.

State	Report	
1st, 1880, p. 65-67:	Cranberry scald or rot. (Same as Bul. 1.)	
p. 67-68:	A raspberry disease. (Same as Bul. 2)	
p. 68:	Sweet potato rot.	
2nd, 1881, p. 60-65:	Cranberry scald.	
p. 65-66:	Sweet potato disease.	
3rd, 1882:	No pathology.	
4th, 1883, p. 16-17:	Sweet-Potato-Sick Soils.	
p. 96-97:	Field experiments with fertilizers. [For control of sweet potato sick soils.] By Josiah Budd.	
5th, 1884, p. 135-43:	Peach trees and the yellows.	
6th, 1885, p. 210:	Clover-sick soils.	
7th, 1886-9th, 1888:	No pathology.	
10th, 1889, p. 221-39:	Report of the botanist.	B.D. Halsted.
11th, 1890, p. 323-453:	Report of the botanical department.	_____
12th, 1891, p. 235-340:	Report of the botanical department.	_____
13th, 1892, p. 275-386:	Report of the botanical department. (Some fungus diseases of the quince, p. 307-21, same as Bul. 91) (Treatment of fungous diseases, p. 333-42, same as Bul. 86, p. 11-20.)	_____
14th, Pt. II, 1893,	p. 287-436: Report of the botanist.	B.D. Halsted.
15th, Pt. II, 1894,	p. 275-419: Report of the botanist.	_____
16th, Pt. II, 1895,	p. 249-361: Report of the botanist.	_____
17th, 1895/96,	p. 287-430: Report of the botanist.	_____

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ANNUAL REPORT (Cont.)

Report.

18th, 1896/97, p. 261-394: Report of the botanist. B.D. Halsted.
19th, 1897/98, p. 289-370: Report of the botanist. _____
20th, 1898/99, p. 321-419: Report of the botanist. _____
21st, 1899/1900, p. 405-76: Report of the botanist. _____
22nd, 1900/01, p. 382-460: Report of the botanist. _____
23rd, 1901/02, p. 375-422: Report of the botanist. _____ &
J.A. Kelsey.
24th, 1902/03, p. 459-554: Report of the botanist. _____
25th, 1903/04, p. 449-553: Report of the botanist. B.D. Halsted.
Fungi, weather and the crops, p. 535-38.
Notes upon winter injury to plants, p. 538-46.
26th, 1904/05, p. 423-525: Report of the botanist. B.D. Halsted
"Mosaic disease among et al
tomatoes, p. 474.
Room-rape upon pelargonium, p. 509.
Fungi as related to weather, p. 510-17.
27th, 1906, p. 189-265: Report of the horticulturist. G.F. Warren
Two serious diseases in et al
1906, p. 224-25.
Spraying, p. 225-36.
p. 369-514: Report of the botanist. B.D. Halsted &
Test of rust-resistant E.J. Owen.
cantaloupes, p. 506-10.
28th, 1906/07, p. 259-386: Report of the botanist. B.D. Halsted
Diseases of plants upon home et al
ground and elsewhere, p. 379-82.
29th, 1908, p. 42-90: Report of the horticulturist. M.A. Blake &
Peach leaf curl, p. 53-54. A.J. Farley
Peach yellows, p. 54-56.
Asparagus breeding to control the asparagus
rust, p. 85-86.
p. 179-301: Report of the botanist. B.D. Halsted
Diseases of plants upon breed- et al
ing grounds and elsewhere, p. 296-97.
30th, 1909, p. 267-350: Report of the botanist. _____
Diseases of plants upon breed- et al
ing grounds and elsewhere, p. 332-33.
31st, 1910, p. 71-86: Report of the horticulturist. M.A. Blake &
Peach investigations at A.J. Farley.
Vineland, p. 71-76.
Stem rot of carnations, p. 78-81.
32nd, 1911, p. 63-86: Report of the horticulturist. M.A. Blake &
Peach experiments at A.J. Farley
vineland, p. 64-76.
33rd, 1912, p. 69-96: Report of the horticulturist. M.A. Blake &
Peach experiments at Vineland A.J. Farley
and High Bridge, p. 70-77.
p. 507-27: Report of plant pathologist. M.T. Cook.

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Report.

34th, 1913, p.87-178: Report of the horticulturist. M.A. Blake
Vineland peach experiments, p.90-93. et al
Work of the past season in the experiment
station, p. 93-96.

p.791-817: Report of plant pathologist. M.T. Cook.
35th, 1914, p.35-84: Report of the horticulturist. M.A. Blake &
Spraying experiments to control C.H. Connors.
rose mildew and black spot, p.38-39.
Some abnormal forms of plant growth, p.40-44.
Vineland peach experiments, p.68-71.
Peach leaf curl, p. 69-70.
June drop of peaches, p. 70-71.

p.467-504: Report of plant pathologist. M.T. Cook
et al

36th, 1915, p.37-66: Report of the horticulturist. M.A. Blake &
Abnormal forms of plant growth, C.H. Connors.
p. 46-47.
Peculiar markings upon peaches, p.47.
Vineland peach experiments, p. 47-53.
Peach yellows and little peach at Vineland,
p.51-53.

p.365-94: Report of plant pathologist. M.T. Cook.
37th, 1916, p.67-110: Report of the horticulturist. M.A. Blake &
Vineland peach experiments, p.71-79. C.H. Connors.
Factors causing the splitting of carnation
calyces, p. 83-99.

p.561-625: Report of plant pathologist. M.T. Cook.
38th, 1917, p.77-104: Report of the horticulturist. M.A. Blake &
Brown rot of peaches, p.81-82. C.H. Connors.
Peach investigations at Vineland, p.82-92.

p.521-63: Report of plant pathologist. M.T. Cook.
39th, 1917/18, p.39-64: Report of the horticulturist. M.A. Blake &
Winter injuries to fruit trees, C.H. Connors.
p.42-45.
Peach investigations at Vineland, p.45-53.
Peach yellows and little peach, p.47.

p.297-302: Report of plant pathologist. M.T. Cook.
40th, 1919, p.65-103: Report of the horticulturist. A.J. Farley.
Yellows and little peach at Vineland, p.72-76.

p.521-44: Report of plant pathologist. M.T. Cook.
p.277-87: Report of the [extension] specialist in plant
pathology Dec.1, 1918 to June 30, 1919; Pt.II
of Report for year July 1, 1918 to
June 30, 1919. L.M. Massey.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

Number. No. 1-49. 1880-1920.

1. Cook, G. H. Suggestions in regard to the cranberry rot and its cure. 1880. (Also in 1st Rept., p. 65-67)

2. _____ Raspberry disease, and suggestions for overcoming it. 1880. (Also in 1st Rept., p. 67-68)

50. Hulst, G.D. Insects injurious to the cabbage and the best means of preventing their ravages. 1888.

64. Halsted, B.D. Club root (*Plasmodiophora brassicae*, Wor.), p.14-21.

70. _____ Some fungus diseases of the cranberry. 1889.

76. _____ Some fungous diseases of the spinach. 1890.

78. _____ Some fungous diseases of the sweet potato. 1890.

86. Smith, J.B. & Halsted, B.D. Destroy the black knot of plum on cherry trees. An appeal. 1891.

91. Halsted, B.D. Spraying for insect and fungous pests of the orchard and vineyard. 1892.

98. _____ Halsted, D.B. Fungi, p.11-20. (Also in 13th Rept., p.333-42.)

107. _____ Some fungous diseases of the quince fruit. 1892. (Also in 13th Rept., p.307-21.)

108. _____ & Kelsey, J.A. Club-root of cabbage and its allies. 1893.

112. Halsted, B.D. Some fungous diseases of beets. 1895.

120. _____ Field experiments with fungicides (turnips, cabbage, tomatoes, potatoes, and beans.) 1895.

129. _____ Field experiments with potatoes. [Treatment for diseases.] 1895.

144. _____ Field experiments with potatoes for 1896. [Treatment for diseases.] 1897.

151. _____ The asparagus rust; its treatment and natural enemies. 1898.

167. Halsted, B.D. & Kelsey, J.A. Live covers for country homes. 1900.

194. Warren, G.F. Diseases and other troubles [of common house vines], p. 28-29.

197. _____ Bean diseases and their remedies. 1901.

226. Blake, M.A. Some of the newer fungicides. 1903.

231. _____ Spraying. 1906.

232. Groth, B.H.A. Suggestions on the renewal of the peach industry in New Jersey. 1906.

236. Blake, M.A. & Farley, A.J. Dipping trees in lime, sulphur and salt before planting, p.14-16.

236. Blake, M.A. & Farley, A.J. Spraying, p. 29-31.

236. Blake, M.A. & Farley, A.J. Some of the more serious enemies of the peach, p.34-43.

236. Blake, M.A. & Farley, A.J. Peach yellows and little peach. 1910.

236. Blake, M.A. & Farley, A.J. The second season with the peach orchard. 1910. Peach leaf curl, p. 12-24.

236. Blake, M.A. & Farley, A.J. Contribution to the study of Bordeaux injury on peaches. 1910.

236. Blake, M.A. & Farley, A.J. Spraying experiments with peaches. 1911.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION,

BULLETIN (Cont.)

Number.

291. Cook, M.T. &
Wilson, G.W. The influence of the tannin content of the host
plant on *Endothia parasitica* and related spe-
cies. 1916.

313. Schwarze, C.A. The parasitic fungi of New Jersey. 1917.

CIRCULAR.

No. 1-120. 1912-1920.

18. Cook, M.T. Potato diseases and methods of control. 1913(?)
24. Farley, A.J. The home preparations of lime-and-sulfur mixtures.
1913(?)

29. _____ Peach leaf-curl. 1913(?)

33. Cook, M.T. & Potato diseases in New Jersey. 1914(?)
Martin, G.W.

34. _____ Crown gall and hairy root. 1914 (?)

35. Cook, M.T. Some diseases of nursery stock. 1914.
36. _____ Grain smuts; their causes and treatments. 1914.
42. Headlee, T.J. Spraying and dusting white potatoes. 1915.
et al

44. Cook, M.T. Common diseases of apples, pears and quinces. 1915.
45. _____ Common diseases of the peach, plum and cherry. 1915.
48. _____ Bordeaux mixture. 1915.

50. _____ Common diseases of beans. 1915.
51. _____ Helyar, J.P. Diseases of grains and forage crops. 1915.

52. Martin, G.W. The common diseases of the pear. 1915.
53. Cook, M.T. & Potato diseases in New Jersey. 1915.
Lint, H.C.

55. Cook, M.T. Common diseases of the grape. 1916.
63. Gillam, L.G. A substitute for self-boiled lime-sulfur and other
summer sprays for peaches. 1917.

68. Martin, W.H. Common diseases of cucumbers and melons. 1917.
71. Cook, M.T. & Diseases of tomatoes. 1917.
Martin, W.H.

75. Spray calendar for apples and quinces. 1917.
76. Spray calendar for pears. 1917.
77. Spray calendar for sweet cherry. 1917.
78. Spray calendar for plum. 1917.
79. Spray calendar for peach. 1917.

80. Cook, M.T. Common diseases of apples, pears and quinces. 1917.
(Circular 44, revised.)

81. _____ Common diseases of the peach, plum and cherry. 1917.
(Circular 45, revised.)

84. _____ Common diseases of beans and peas. 1917.

88. _____ Common diseases of berries. 1918 (?)

NEW JERSEY AGRICULTURAL EXPERIMENT STATION.

CIRCULAR (Cont.)

Number.

89. Cook, M.T. Common diseases of garden vegetables and truck drops. 1918 (?)

93. Spray calendar for apples and quinces. 1918.
(Revision of Circular 75.)

94. Spray calendar for the peach. 1918. (Revision of Circular 79.)

95. Lint, H.C. Seed and soil treatment for the control of potato scab. [1918]

96. Cook, M.T. & Martin, W.H. Leaf blight of the tomato. 1918.

97. Cook, M.T. Common diseases of ornamental plants. 1918.

98. _____ Common diseases of shade and ornamental trees. 1918.

102. _____ & Helyar, J.P. Diseases of grains and forage crops. 1918.

104. Cook, M.T. & Martin, W.H. Diseases of tomatoes. 1918.

105. Cook, M.T. Potato diseases in New Jersey. 1919.

106. _____ Seed and soil treatment for vegetable diseases. [1919]

112. Krout, W.S. Diseases of celery. 1919.

116. Spray calendar for apples and quinces. 1920.

117. Spray calendar for peaches. 1920.

118. Spray calendar for pears. 1920.

119. Spray calendar for plums. 1920.

120. Spray calendar for cherries. 1920.

[MISCELLANEOUS. UNNUMBERED]

1896-1910.

Halsted, B.D. An outbreak of asparagus rust. 1896. (Broadside)

A second outbreak of the asparagus rust. 1897. (Broadside)

Outbreak of chrysanthemum rust. 1899. (Broadside)

SPECIAL BULLETINS A-S.

1882-1900.

Number.

G. Halsted, B.D. The potato rot. 1889.
J. _____ The sweet potato rot. 1889.
M. _____ Field experiments with soil and black rots of sweet potatoes. 1891.
Q. _____ Some fungous diseases of the celery. 1892.
S. _____ Soil fungicides for potato and turnip diseases. 1900.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

Number.

N.J.-4. Martin, W.H. Influence of Bordeaux mixture on the rates of transpiration from abscised leaves and from potted plants. 1916.

NEW MEXICO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-30th. 1918/19.

After 1911 reports of progress in plant disease work carried on in the divisions of Botany and Biology given in Director's report.

Report.

1st, 1890-22nd, 1911: No pathology.
23rd, 1911/12, p. 31-34: Botany.
24th, 1912/13, p. 34-36: Botany.
25th, 1913/14, p. 80-81: Biology: Plant pathology.
26th, 1914/15, p. 51-54: Biology.
27th, 1915/16, p. 23, 25: Biology.
28th, 1916/17,
 p. 22-23, 24-27: Biology.
29th, 1917/18, p. 23, 24: Biology.
30th, 1918/19,
 p. 14, 15, 16, 17-18: Biology.

BULLETIN.

No. 1-124. 1890-1920.

Number.

20. Vestal, G. Seeds. 1896.
 Treatment of seeds for prevention of smut, p. 141-43.
21. Griffin, H.H. Results of experiments at the San Juan sub-station.
 1897.
 Loose smut of oats; potato scab, p. 10-12.
 Tomato blight, p. 17-18.
22. Goss, A. & Alkali in the Rio Grande and Animas Valleys. 1897.
 Griffin, H.H. Injurious effects of alkali, p. 29-31.
30. Garcia, F. Effect of spring frosts on the peach crop, p. 217-246,
 251-52. 1898.
33. Mead, C.E. Notes from the San Juan sub-station. 1900.
 Observations on the tomato blight, p. 44-45.

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BULLETIN (Cont.)

Number.

58. Garcia, F. European grapes. 1906.
[Crown gall], p.19-21, 28-30.
Hedgcock, G.G. The crowngall disease of the grape
vine, p.30-31.
68. Injurious insects. 1908.
New Mexico law on orchard inspection, p.60-62.
85. ² Rigney, J. V. Grape crown-gall investigations. 1913.
89. Hardiness of fruit-buds and flowers to frost. 1914.
121. Leonian, L.H. Fusarium wilt of chile pepper. 1919.

PRESS BULLETIN.

No. 1-339. 1889(?)-1919.

51. Vernon, J.J. Wheat smuts. 1901.
61. Garcia, F. Spraying mixtures. 1902.
71. Una enfermedad del tomate. 1902.
84. The grape root gall. 1903.
114. Scott, J.M. Prevention of smut in wheat. 1906.
119. Vernon, J.J. Wheat smut. 1906
122. Garcia, F. Winter injured trees. 1907
154. Injury to peach blossoms by cold. 1909.
166. Squires, J.H. Treating wheat for smut. 1910.
178. Hammond, H.S. Warning against apple and pear blight. 1911.
198. Humbert, E.P. Smut. Formalin treatment. 1913.
216. Hammond, H.S. Chlorosis, its cause and treatment. 1913.
233. Powdery mildew and its control. 1914.
248. Mann, J.M. Fall and winter preparations to prevent plant dis-
eases in next year's crops. 1914.
252. Garcia, F. Spraying pome fruits. 1915.
254. Rociadura de frutas pomos. 1915.
(Spanish ed. of Press bulletin 252.)
258. Werkenthin, F.C. Potato blight. 1916.
259. Garcia, F. Rociadura de frutas pomos. 1916.
269. Merrill, D.E. Chlorosis in plants. 1916.
286. Field control of potato insects and diseases. 1917.
287. Seed treatment for control of potato diseases. 1917.
288. Chile blight. 1917.
336. Leonian, L.H. Irish potato diseases. 1919.

NEW YORK (STATE) AGRICULTURAL EXPERIMENT STATIONS.

GENEVA, NEW YORK.

ANNUAL REPORT.

1st-39th. 1882-1920.

The earlier reports contain pathological articles in the reports of the botanist. Later, summaries of the work of the horticulturist and the botanist appear in the director's report, while the reports of the departments themselves consist entirely of reprints of bulletins published during the year. To save space, the page references to the director's summaries have not been given, nor the titles of the reprinted bulletins. The titles of the bulletins may be found by reference to the list of bulletins.

Report.

1st, 1882-2nd, 1883:	No pathology.	
3rd, 1883, p. 353-85:	Report of botanist.	J.C. Arthur.
4th, 1885, p. 65:	Potato rot. (Director's Rept.)	
p. 112-34:	Report of first assistant.	C.S. Plumb.
p. 135-260:	Smut in oats, p. 128-29.	
5th, 1886, p. 72-139:	Report of horticulturist.	E.S. Goff.
p. 259-96:	Report of first assistant.	C.S. Plumb.
6th, 1887, p. 76-306:	Smut in oats, p. 124-30.	
p. 307-42:	Report of botanist.	J.C. Arthur.
p. 343-71:	Report of horticulturist.	E.S. Goff.
7th, 1888, p. 87-223:	Applications for the prevention of apple scab, p. 99-101.	M.H. Beckwith.
p. 224-33:	Report of assistant horticulturist.	
8th, 1889, p. 298-336:	Potato scab, p. 307-15.	
p. 309-51:	A fungus disease of the cucumbers, p. 316.	
9th, 1890, p. 257-308:	Report of botanist.	J.C. Arthur.
p. 309-51:	Report of horticulturist.	E.S. Goff.
10th, 1891, p. 179-80:	Experiments with fungicides, p. 153-57.	
p. 459-90:	Report of assistant horticulturist.	M.H. Beckwith.
	[Potassium sulphide for gooseberry mildew], p. 334-35.	
	Disease of hollyhock (<i>Puccinia malvacearum</i>), p. 335.	
	Acting horticulturist.	C.E. Hunn.
	[Test of healthy versus infected potato seed], p. 293-95.	
	Acting pomologist.	C.W. Churchill.
	Some of the most common fungi - with preventives, p. 334-39.	
	Outline of work by Mr. Fairchild. [on fungicides for nursery stock]	
	Report of the chemist.	L.L. VanSlyke.
	Analyses of materials used in spraying plants, p. 392-401.	
	Analyses of sprayed grapes, p. 401-03.	
	Report of acting horticulturist.	C.E. Hunn.
	Results obtained by spraying with fungicides for the prevention of potato blight, p. 485-87.	

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Report.

11th, 1892, p. 530-677: Report of horticulturist. S.A. Beach.
Reprints of Bul. n. s. 48, 49, 51.
Experiments in preventing leaf diseases of nursery stock in western New York, p. 642-77. D.G. Fairchild.

p. 681-700: Report of assistant horticulturist. C.E. Hunn.
[Strawberries: variety table showing susceptibility to anthracnose], p. 693.
Bordeaux mixture used to prevent potato blight, p. 696-99.

12th, 1893, p. 543-717: Report of horticulturist. S.A. Beach.
Some observations on the life-history of *Plowrightia morbosa* (Schw.) Sacc, p. 686-87.
Reprints of Bul. n. s. 72, 67.

13th, 1894, p. 573-706: Report of horticultural work. S.A. Beach & Summary of pathological work, p. 573-75. W. Paddock.
Reprints of Bul. n. s. 84, 81, 74.

14th, 1895, p. 247-388: Report of horticulturist.
Raspberry anthracnose, p. 342-45.
Reprint [with few alterations] of Bul. n.s.86.

p. 519-546: Report of mycologist. F.C. Stewart.

15th, 1896, p. 265-445: Horticultural department. S.A. Beach
et al
Plum leaf spot, p. 384-401. S.A. Beach.
Prevention of fungous diseases of cherry orchards, p. 402-07.
Report on injury to fruit trees during the winter of 1895-96, p. 408-39. & C.P. Close.

p. 499-518: Department of Vegetable Pathology. F.C. Stewart.
Notes on miscellaneous plant diseases, p. 451-59.
Reprints of Bul. n.s. 100, 101.

16th, 1897, p. 205-341: Horticultural department. S.A. Beach
et al
Reprints of Bul. 121, 124, 125, 131, 133, 140.

p. 345-433: Department of vegetable pathology. F.C. Stewart.
Reprints of Bul. 119, 123, 130, 138.

17th, 1898, p. 67-89: Reprint of Bul. 156.

18th, 1899, p. 153-217: Department of botany.
Reprints of Bul. 162, 164, 167.

p. 320-465: Report of horticultural department.
Reprints of Bul. 161, 163, 170.

19th, 1900, p. 55-209: Report of the botanist.
Reprints of Bul. 175, 189, 182, 186, 188, 191.

p. 332-412: Horticultural department. S.A. Beach.
Reprints of Bul. 185, 196.

20th, 1901, p. 121-61: Department of botany. F.C. Stewart.
Reprints of Bul. 199, 200.

21st, 1902, p. 57-164: Department of botany. H.J. Eustace.
Reprints of Bul. 220, 221, 226, 227.

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22nd, 1903, p. 85-162:	Department of botany. Reprints of Bul. 232, 235, 241.	
p. 293-386:	Horticultural department. Reprint of Bul. 243.	S.A. Beach et al
23rd, 1904, p. 45-78:	Department of bacteriology. Reprint of Bul. 251.	
p. 226-386:	Department of horticulture. Reprint of Bul. 248.	S.A. Beach
24th, 1905, p. 89-234:	Botanical department. Reprints of Bul. 264, 267, 269.	F.C. Stewart et al
p. 295-351:	Department of entomology. Reprint of Bul. 262.	P.J. Parrott, et al
25th, 1906, p. 117-99:	Department of botany. Reprints of Bul. 279 & Tech. Bul. 2.	F.C. Stewart, et al
26th, 1907, p. 67-138:	Department of horticulture. Reprint of Bul. 290.	et al
p. 217-323:	Department of horticulture. (Rep. Bul. 287)	U.P. Hedrick.
26th, Pt. III:	Anniversary report, 1882-1907.	
p. 119-62:	Botanical investigations.	F.C. Stewart.
p. 293-349:	Horticultural investigations.	N.O. Booth.
27th, 1908, p. 123-270:	Department of botany. Reprints of Bul. 297, 305, 307 and Tech. Bul. 7.	F.C. Stewart.
28th, 1909, p. 29-212:	Department of bacteriology. Reprint of Tech. Bul. 11.	H.A. Harding & W.J. Morse.
p. 213-330:	Botany. Reprints of Bul. 311 and Tech. Bul. 9, 12.	F.C. Stewart, et al
p. 352-87:	Reprint of Bul. 319. (In Chemist's Rept.)	L.L. VanSlyke, et al
29th, 1910, p. 127-280:	Department of botany. Reprints of Bul. 323, 328.	
p. 283-327:	Reprint of Bul. 329. (In Chemist's Rept.)	et al
p. 349-82:	Reprint of Bul. 330. (In Entomolo- gists' Rept.)	P.J. Parrott & W.J. Schoene.
	Preliminary report on grape insects, p. 418-511.	
	Lime sulphur injury to grapes, p. 509-11.	F.Z. Hartzell.
30th, 1911, p. 69-202:	Department of botany.	F.C. Stewart.
31st, 1912, p. 179-306:	Reprints of Bul. 338 and Tech. Bul. 18. Botanical department.	
	Reprints of Bul. 347, 352, 349, Tech. Bul. 23, . Bul. 347 (Pop. Ed.), Bul. 349 (Pop. Ed.) and Bul. 352, (Pop. Ed.)	
32nd, 1913, p. 143-231:	Department of botany.	F.C. Stewart.
p. 383-482:	Reprints of Bul. 357, 367, 369, 370. Department of horticulture.	U.P. Hedrick.
	Reprints of Bul. 361, Bul. 357 (Pop. Ed.), Bul. 367 (Pop. Ed.) and Bul. 369/370 (Pop. Ed.)	

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ANNUAL REPORT (Cont.)

Report.

33rd, 1914, p. 229-78: Department of botany. F.C. Stewart.
Reprints of Bul. 374, 379, 389, 374 (Pop. Ed.),
379 (Pop. Ed.), 389 (Pop. Ed.)

34th, 1915, p. 237-329: Department of botany. F.C. Stewart.
Reprints of Bul. 395, 397, 399, 405, Tech. Bul.
24, Bul. 396, 396 (Pop. Ed.), 397 (Pop. Ed.),
399 (Pop. Ed.)

35th, 1916, p. 95-212: Department of botany. F.C. Stewart.
Reprints of Bul. 422, Tech. Bul. 50, Bul. 426,
421, 422 (Pop. Ed.)

36th, 1917, p. 275-409: Department of botany. F.C. Stewart.
Reprints of Bul. 436, 437.

p. 559-654: Department of horticulture. U.P. Hedrick.
Reprints of Bul. 433, 433 (Pop. Ed.), 436 (Pop. Ed.),
437 (Pop. Ed.)

37th, 1918, p. 238-42: Reprint of Tech. Bul. 64.

p. 395-430: Department of horticulture. U.P. Hedrick.
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38th, 1919, p. 187-284: Department of botany. F.C. Stewart.
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39th, 1920, p. 16-17: Division of botany. (In Director's Rept.)

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20. _____ [Clover sickness], p. [1]. 1882.
48. _____ [Peach "curl leaf"], p. [1]. 1883.
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24. [Hunn, C.E.] Experiments with strawberries. 1890.
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200. (See above no. 199/200) Popular ed.)

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262. Parrott, P.J. Sulphur washes for orchard treatment. II. 1905. (Also et al 24th Rept., p.297-324.)

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352. Munn,M.T. Lime-sulphur vs. Bordeaux mixture as a spray for potatoes,
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369. _____ & Gloyer, W.O. The injurious effect of formaldehyde gas on potato tubers. 1913. (Also 32nd Rept., p.185-216.)

370. Gloyer, W.O. The efficiency of formaldehyde in the treatment of seed potatoes for Rhizoctonia. 1913. (Also 32nd Rept., p.217-231.)

369/370. Hall, F.H. Some faults in formaldehyde disinfection of potatoes. 1913. (Popular edition) (Also 32nd Rept., p.774-81.)

374. Stewart, F.C. & Rankin, W.H. Does Cronartium ribicola over-winter on the currant? 1914. (Also 33rd Rept., p.231-43.)

374. Hall, F.H. et al Do dormant currant plants carry pine rust? 1914. (Pop. ed.) (Also 33rd Rept., p.906-08.)

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397. Munn, M.T. Lime sulphur vs. Bordeaux mixture as a spray for potatoes. III. 1915. (Also 34th Rept., p.291-301.)

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31st, 1918, p.xvi-xliii:	Plant pathology.	
32nd, 1919, p.xxvi-xxvii:	Investigation of bean production. Report of plant pathologist.	W.H. Burkholder.
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1st, 1879 [13th], 1890: No pathology.

[14th], 1891, p. 19-21: Report of botanist and acting entom. G. McCarthy.

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25th, 1901/02, p. 64: Reprint of Press Bul. 3. G. McCarthy.

26th, 1902/03, p. 19-22: Report of biologist. F. L. Stevens.

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84. McCarthy, G. Some enemies of truck and garden crops. 1892.

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128. McCarthy, G. Pests of grain crops. 1896.

132. The home vegetable garden and its pests. 1896.
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212. Stevens, F. L. Prevention of oat and wheat smut. 1910.

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19. Fulton, H. R. Some important diseases of tomato in North Carolina. 1914.

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No. 1-24. 1902-1911.

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3. McCarthy, G. Anthracnose or "black-rust" of cotton. [1902?].
(Also 25th Ann. Rept., p.64)

4. Stevens, F.L. Treatment of oats, wheat, rye or barley for smut.
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8. _____ The scab of the Irish potato. 1903. (Also 26th
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9. To prevent the black rot of the grape. 1903. (Also 27th Ann. Rept.,
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10. Stevens, F.L. The watermelon wilt. 1903. (Also 27th Ann. Rept.,
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11. _____ A dangerous tobacco disease. 1903. (Also 27th
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15. _____ Treatment of oats, wheat, rye and barley for
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17. _____ The grape black rot. 1908. (Also 31st Ann. Rept.,
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18. _____ The apple bitter rot. 1908. (Also 32nd Ann.
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1st,1890,p.9-10: Botanical department. (In Director's Rept.)
2nd,1891,p.20-23: Botanical department. (In Director's Rept.)
3rd,1892,p.24-26: Botanical department. (In Director's Rept.)
4th,1893,p.9-12: Botanical department. (In Director's Rept.)
5th,1894,p.9-14: Botanical department. (In Director's Rept.)
6th,1895,p.6-8: Botanical department. (In Director's Rept.)
7th,1896,p.14: Smut in wheat (In Chemist's Rept.) E.F.Ladd.
8th,1897,p.27-50: Botanical department. H.L.Boiley.
Diseases of plants, p.43-44.
9th,1898,p.24-28: Department of botany.
10th,1899,p.19-39: Department of botany.
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11th,1900,p.28-56: Department of botany.
12th,1901,p.30-44: Department of botany.
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13th,1902,p.34-65: Department of botany.
14th,1903,p.42-58: Department of botany.
15th,1904,Pt.I,
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16th,1905,[Pt.1],
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17th,1906,p.28-36: Department of botany.
18th,1907,p.42:
p.45-82: First affected straw. (In Chemist's Rept.)
Department of botany.
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Seed breeding and crop disease, p.75-76.
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19th, 1908, p. 39-52: Department of botany. H.L. Bolley.
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20th, 1909, p. 33-93: Department of botany. _____

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22nd, 1911, p. 23-98: Department of botany and plant path. _____

23rd, 1912, p. 29-30: Department of botany and plant path. _____
p. 31-32: Horticultural department. C.B. Waldron.

24th, 1913, p. 22-28: Department of botany and plant path. H.L. Bolley.

25th, 1914, p. 13, 14: [Plant diseases] (In Director's Rept.)

26th, 1914/15, p. 15-18: [Plant diseases] (in Director's Rept.)

27th, 1915/16,
[Pt. 1], p. 17: Resistant flax. (In Director's Rept.)

28th, 1916/17, p. 13: Resistant flax. (In Director's Rept.)
p. 13-14: The character of light weight and injured seed due to
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1917/19, p. 16-17: Botany and plant pathology. (In
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1919/20, p. 10-20: Agronomy department.
The value of crop rotation in a rust year (The 1919
yield in rotation series 1), p. 10-12.
The value of fresh manure in a rust year, p. 13-14.

p. 34-38: Department of botany and plant pathology.
Potatoes, p. 38.

EDGELEY SUB-EXPERIMENT STATION.

ANNUAL REPORT.

[1st]-11th. 1903-1913.

1905, p. 1-20: Edgeley Sub-experiment Station Rept., 1905. C.A. Thompson &
Seed treatment to prevent diseases J.H. Sheppard.
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Number.

1. Bolley, H.L.
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21-31.
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9. Bolley, H.L. Prevention of potato scab, p.27-41. 1893.
19. _____ Treatment of smut in wheat, p.125-30.
27. _____ Treatment of potato scab, p.130-34. 1895.
New studies upon the smut of wheat, oats and barley
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31. Worst, J.H. Experiment station notes on miscellaneous subjects.
1898.
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54.
37. Bolley, H.L. The prevention of the smuts of cereal grains, and
prevention of potato scab. 1899.
50. _____ Flax wilt and flax sick soil. 1901.
55. _____ Flax and flax seed selection. 1903.
Diseases of flax and flax-sick soil, p.186-98.
68. _____ Rust problems; facts, observations and theories:
possible means of control. 1906.
71. _____ Flax culture. 1906.
Flax diseases, p. 203-09.
75. Shepperd, J.H. & Cereal crop experiments. 1907.
Churchill, O.C. Yellow spot in durum wheat, p. 296-98.
87. Bolley, H.L. Seed disinfection and crop production, methods and
types of machinery needed. 1910.
90. Shepperd, J.H. & Potato culture. 1911.
Churchill, O.O. Diseases, p.114-20.
103. Bolley, H.L. & Cropping to flax on new lands of semi-arid land
Wilson, W.L. areas. 1913.
Diseases, p.30-38.
107. Bolley, H.L. Wheat: soil troubles and seed deterioration, causes
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143. Walster, H.L. Earliness and rustiness of spring wheat. 1920.

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1901-1902.

Bolley, H.L. Flax wilt. 1901.
About flax. Flax wilt or flax sick soil and other
troubles which injure the flax crop. 1902.

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION.

PRESS PUBLICATION.

No. 1-59. 1903(?) - 1913.

Number.

3. Bolley, H.L. Way to avoid flax-sick soil select ~~seed~~. 1903.
10. Waldron, L.R. Treat your seed corn [for smut]. 1903.
11. Bolley, H.L. The uses of formaldehyde on the farm. 1904.
(Re-edited 1911.)
14. _____ Treating and sowing flax seed. 1904.
15. _____ & Manns, T. The effect of evaporation upon solutions of formaldehyde. 1904.
18. Bolley, H.L. Selecting potatoes for seed and treating to prevent potato diseases. 1904.
(Re-edited. 1911.)
20. _____ Cause of wheat rust, its method of attack, conditions favorable to infection and rust development; and what to do. 1904.
21. _____ Seed wheat for 1905- on a use of wheat from a rusted crop for seed purposes. 1904.
22. _____ The use of rusted wheat for seed. 1904.
23. _____ Resistant seed flax and how to get it. 1907.
(Reissued 1910.)
52. _____ Flax comber. 1912.
57. _____ Resistant flaxseed for sowing purposes. 1913.

OHIO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-39th. 1882-1919/20.

The 16th, 1896/97, and subsequent reports are merely administrative accounts of the progress of work by the Director.

Report.

1st, 1882-4th, 1885:	No pathology.	
5th, 1886, p. 65-81:	Experiments with oats. Smut in oats., p. 80-81.	W.S. Devol.
6th, 1887-7th, 1888:	No pathology.	
8th, 1889:	(Bul. [15])	
p. xxx-xxxii:	Report of entomologist and botanist.	C.M. Weed.
9th, 1890:	(Bul. [26])	
p. xxxvi-xxxviii:	Report of entomologist and botanist.	
10th, 1891:	(Bul. [36])	
p. xxi:	Summary of Bulletin 9 by W.J. Green & Freda Detmers (In Director's Rept.)	
p. xxix-xxxii:	Report of horticulturist.	W.J. Green.
p. xxxiv:	Report of botanist.	F. Detmers.
11th, 1892:	(Bul. 47)	
p. xxxiii-xxxv:	Report of horticulturist.	W.J. Green.
p. xxxix:	Report of botanist.	F. Detmers.
12th, 1893:	(Bul. 52)	
p. xviii:	Summary of Bulletin 48 by W.J. Green. (In Director's Rept.)	
13th, 1894:	(Bul. 58)	
p. xl-xliii:	Report of botanist.	A.D. Selby.
14th, 1895:	(Bul. 66)	
p. xxxiv-xlii:	Report of botanist.	
15th, 1896:	(Bul. 74)	
p. xxxvii-xli:	Report of botanist.	
16th, 1896/97:	(Bul. 84)	
p. xv:	Weeds and plant diseases.	
17th, 1897/98:	(Bul. 95)	
p. xvi:	Investigation of plant diseases.	
18th, 1898/99:	(Bul. 109)	
p. xv:	Departments of botany and chemistry.	
19th, 1899/1900:	(Bul. 120)	
p. xiii:	Botany.	
20th, 1900/01:	(Bul. 128) No pathology.	
21st, 1901/02:	(Bul. 135) No pathology.	
22nd, 1902/03:	(Bul. 143) No pathology.	
23rd, 1903/04:	(Bul. 152)	
p. xvii:	Prevention of fungous diseases of plants.	
24th, 1904/05:	(Bul. 163)	
p. xvi:	Investigation of plant diseases.	
25th, 1905/06:	(Bul. 176)	
p. xix:	Botany.	

OHIO AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

26th, 1906/07 (Bul. 185):	p. xvii-xviii:	Botany.
27th, 1907/08 (Bul. 196):	p. xxi-xxi:	Botany.
28th, 1908/09 (Bul. 205):	p. xviii:	Botany.
29th, 1909/10 (Bul. 220):	p. xviii-xix:	Botany.
30th, 1910/11 (Bul. 230):	p. xiv-xv:	Botany.
31st, 1911/12 (Bul. 249):	p. xiv-xvi:	Botany.
32nd, 1912/13 (Bul. 263):	p. xiv-xvi:	Botany.
33rd, 1913/14 (Bul. 278):	p. xi:	Botany.
34th, 1914/15 (Bul. 288):	p. xvi-xvii:	Botany.
35th, 1915/16 (Bul. 300):		No pathology.
36th, 1916/17 (Bul. 315):	p. xiv:	Botany.
37th, 1917/18 (Bul. 325):	p. viii-ix:	Botany.
38th, 1918/19 (Bul. 338):	p. x-xi:	Botany.
39th, 1919/20 (Bul. 346):	p. x-xi:	Control of plant diseases.
	p. xxii-xxii:	Botany.

BULLETIN.

No. 1-23. Ser. 2, no. 1-346. 1883-1920.

Number.

OHIO AGRICULTURAL EXPERIMENT STATIONS.

BULLETIN (Cont.)

Number.

55. Ohio laws relative to weeds, black-knot and yellows, p.62-69. 1894.
63. Green, W.J. Orchard spraying, p.97-107. 1895.
64. Selby, A.D. The smut of oats and its prevention. 1895.
67. Hickman, J.F. Oats. 1896.
Effect of smut, p.2-6.
72. Selby, A.D. Peach yellows and black-knot, p.193-210. 1896.
Ohio black-knot, yellows and San Jose' scale law, p.218-20. 1896.
73. _____ Investigations of plant diseases in forcing house and garden. 1896.
78. _____ & Corn smut, p.92-96. 1897.
Hickman, J.F.
79. Selby, A.D. Some diseases of orchard and garden fruits. With spray calendar supplement. 1897.
82. Hickman, J.F. Field experiments with wheat. 1897.
Seed treatment for smut, p.232-34.
89. Selby, A.D. Prevalent diseases of cucumbers, melons and tomatoes. 1897.
92. _____ Preliminary report upon diseases of the peach; experiments in spraying peach trees. 1898.
97. _____ Hickman, J.F. & Some diseases of wheat and oats, p.31-43. 1898.
Selby, A.D. Experiments in the prevention of grain smuts, p.43-61. 1898.
102. Green, W.J. et al. Seed and soil treatment and spray calendar for insect pests and plant diseases. 1899. (Rev., Bul. 147.)
104. Selby, A.D. Further studies upon spraying peach trees and upon diseases of the peach. 1899.
105. _____ Further studies of cucumber, melon and tomato diseases. 1899.
111. _____ Investigations of plant diseases. A summary of the work of the... station from 1891 to 1899... 1899.
121. _____ A condensed handbook of the diseases of cultivated plants in Ohio. 1900. (Rev., Bul. 214.)
122. _____ Onion smut - preliminary experiments. 1900.
123. _____ & Hicks, J.F. Grape rots in Ohio, p.85-94.
Experiments in the prevention of grape rot, p.94-102. 1901.
126. Selby, A.D. & Ames, J.W. Sugar beet investigations in Ohio in 1900. 1901.
130. Selby, A.D. & Hicks, J.F. Sugar beet diseases, p.168-73.
131. Selby, A.D. Spraying for grape rot, p.29-41. 1902.
139. _____ The prevention of onion smut. 1902.
A rosette disease of potatoes, attributed to the sterile fungus Rhizoctonia. 1903.
145. _____ Studies in potato rosette. II. 1903.
147. Green, W.J. & Selby, A.D. Seed and soil treatment and spray calendar for insect pests and plant diseases. 1904. (Bul. 102 rev.)
148. Selby, A.D. Peach diseases. III. Studies in the prevention of leaf curl and scab. 1904.

OHIO AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

156. Selby, A.D. Tobacco diseases, p.87-107. 1904.
157. Green, W.J. & Winter killing of peach trees... 1904.
Ballou, F.H.
160. Green, W.J. & The codling moth. 1905.
Houser, J.S. The apple scab, p.212-14.
173. VanHook, J.M. I. Blighting of field and garden peas, chiefly due
to seed infection. II. Powdery mildew. 1906.
174. Green, W.J. & Potato investigations... spraying and seed selec-
Waid, C.W. tion experiments. 1906.
The early and late blight, and how to combat
them, p.277-85.
192. Selby, A.D. Fall and early winter injuries to orchard trees and
shrubbery by freezing. 1908.
199. Green, W.J. Spray calendar with seed and soil treatment meth-
et al ods. 1908.
203. Selby, A.D. & Studies in diseases of cereals and grasses. 1909.
Manns, T.F.
210. Manns, T.F. The blade blight of oats, a bacterial disease. 1909.
214. Selby, A.D. A brief handbook of the diseases of cultivated
plants in Ohio. 1910. (Bul. 121; rev.)
Spraying machinery. 1910.
216. Goodwin, W.H. Apple culture in Ohio. 1910.
217. Ballou, F.H. Spraying, p.538-59.
218. Gourley, J.H. Seasonal report on potatoes, 1909, p.597-603. 1910.
Treating potatoes for scab, p.599-600.
An outbreak of Fusarium wilt, p.601-03.
224. Ballou, F.H. The rejuvenation of orchards. Report of spraying
experiments in southeastern Ohio - 1910. 1910.
228. Manns, T.F. Two recent important cabbage diseases of Ohio. 1911.
229. 232. Green, W.J. The Fusarium blight and dry rot of the potato. 1911.
et al Spray calendar with seed, soil and disinfection
treatment methods. 1911. (Rev. Bul. 309)
240. Ballou, F.H. The rejuvenation of orchards. 1912.
The spraying work of 1911, p.479-88.
248. Goodwin, W.H. Spraying machinery accessories. 1912.
265. Arzberger, E.G. The cob-rot of corn. 1913.
290. Green, W.J. Varieties of apples in Ohio. 1915.
et al Selby, A.D. et al Disease susceptibility, p.35-41.
309. et al Spray calendar with seed, soil and disinfection
treatment methods. 1917. (Bul. 232, rev.)
319. Babcock, D.C. Potato diseases. 1917.
321. Humbert, J.G. Tomato diseases in Ohio. 1918.
333. Selby, A.D. Apple blotch, a serious fruit disease. 1919.

OHIO AGRICULTURAL EXPERIMENT STATION.

BULLETIN. TECHNICAL SERIES.

Vol. 1, no. 1-8. 1889-1915.

Number.

Vol. 1, no. 3. Entomological and botanical papers. 1893.
Detmers, F. Additions to the preliminary list of the Uredineae of Ohio, p.171-80.
Kellerman, W.A. Experiments in germination of treated seed, p.201-05.
____ & Analytical synopsis of the groups of fungi, Selby, A.D. p.206-13.
Selby, A.D. The Ohio Erysipheae, p.213-24.

CIRCULAR.

No. 1-156. 1888-1915.

22. Orchard and nursery inspection. 1900.
23. Inspection of orchards. 1900.
57. Selby, A.D. Soil treatment for the forcing house. The control of rosette (*Rhizoctonia*) in lettuce and tomatoes and of nematodes in crops grown under glass. 1906.
58. Green, F.J. & Waid, C.W. The early and late blight of potatoes and how to combat them. 1906.
59. Selby, A.D. Soil treatment of tobacco plant beds. Fall applications of formalin to prevent bed rot (*Rhizoctonia*) and black root (*Thielavia*). 1906.
64. _____ & VanHook, J.M. Dying of bearing grape vines. Localized stem blight in Ohio vineyards. 1907.
72. VanHook, J.M. Celery root rot. 1907.
87. Papers read at the summer meeting of the Ohio state horticultural society... Aug. 12, 1908. 1908.
Selby, A.D. Spraying for apple scab in 1908, p.4-8.
Hunt, R.A. & Miller, V. Combating pear blight, p.8-10.
94. Bailou, F.H. Report of horticultural inspection. 1909.
Efforts to control pear blight in northern Ohio, p.16-18.
95. Gossard, H.A. Apple spraying in 1908. 1909.
103. Autumn meeting of the Ohio state horticultural society... 1909. 1910.
Selby, A.D. Spraying for the fungous diseases of the apple and other crops, p.2-9.
103. Green, W.J. et al Orchard spraying suggestions for 1911. Advice supplemental to spray calendar (See Bul. 199). 1911.
125. Gloyer, W.O. Apple blister canker and methods of treatment. 1912.
126. Selby, A.D. Dressings for pruning wounds of trees. 1912.
133. _____ Disease susceptibility of apple varieties in Ohio. 1913.
148. Jay, R.D. Spraying farm orchards by the club plan. 1914.
149. Green, W.J. et al Spraying program for orchards, with combinations recommended. 1915.
150. Selby, A.D. Tree fillings and wound dressings for orchards and shade trees. 1915.
156. _____ et al How to disinfect tobacco plant beds from root-rot fungus (*Thielavia*). 1915.

OHIO AGRICULTURAL EXPERIMENT STATION.

MONTHLY BULLETIN

Vol. 1-5.

1916-1920.

Contains popular articles on plant diseases, many of which are abstracts of bulletins. This series supercedes the circulars.

PRESS BULLETIN

No. 156-362.

1896-1915.

Number.

158. Prevention of oat smut. 1896.
167. Diseases of forcing house vegetables. 1897.
169. Black-knot, peach yellows and San Jose' scale. 1897.
171. Spraying for fungous diseases. 1897.
183. Diseases of cucumbers, melons, tomatoes and peaches. 1898.
186. Peach yellows. Prevention of smut in wheat. 1898.
208. San Jose scale, tree and plant diseases. Law to prevent the introduction and spread... 1900.
211. Black-knot and peach yellows - how to destroy them. 1900.
221. A bulletin on plant diseases. 1901.
232. [Selby, A.D.] Oat smut - how to prevent it. 1902.
235. [] Bitter-rot of apples. 1902.
236. [] Grape rot and its prevention. 1902.
237. [] Special spraying instructions. 1902.
238. [Green, W.J.] Spray pumps and spraying appliances. 1902.
240. Caustic soda for Bordeaux mixture. 1902.
242. Selby, A.D. Grape rot prevention. 1902.
243. [] Spraying for bitter-rot of apples. 1901.
244. [] Loss of leaves by cherry leaf-spot and shot-hole fungus. 1902.
245. [] Tomato leaf-spot and muskmelon blight. 1902.
252. [] Spraying for grape-rot. 1903.
255. Look for dodder in alfalfa and clover seeds; Treat seed potatoes for disease. 1904.
267. Late blight or rot of potatoes. 1905.
276. Spraying potatoes for late blight advisable in 1906. 1906.
279. Late blight or rot of potatoes has appeared. 1906.
286. Thorne, C.E. Yellow leaf in oats. 1907.
287. Late blight and rot fungus of potatoes now prevalent. 1907.
295. Treat seed wheat to prevent stinking smut. 1908.
297. Late blight and rot fungus of potatoes now prevalent. 1908.
311. Selby, A.D. Examine your seed potatoes for dry-rot. 1910.
313. The blade blight or yellowing of oats. 1910.
316. The Fusarium blight or wilt of potatoes. 1910.
318. Treat seed wheat for smut. 1910.
322. Prevent the onion smut when the seed is sown. 1911.
327. Look for tree cankers in the apple orchard. 1911.
330. Selby, A.D. Corn molds and ear rots in 1911. 1911.
342. Are the apple orchards worth saving? 1912.
343. Are apple trees grown for fire-wood or for fruit production? 1912.
348. Corn growers requested to look for diseased plants. 1912.
350. Save the potato crop. Late blight and rot fungus of potatoes now prevailing in Ohio. 1912.

OHIO AGRICULTURAL EXPERIMENT STATION.

PRESS BULLETIN (Cont.)

Number.

351. See treatment to prevent oat smut. 1913.

360. Save the potato crops. Late blight and rot fungus now prevailing in Ohio. 1915.

No. 1-155, 290 not seen. Titles not ascertained.

No. 156-192 entitled Newspaper bulletins.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

[2d]-29th. 1894-1920.

The first numbered report is the 10th, 1900/01. Counting back from this date to the earliest report found, a financial statement for 1892/93 in Bulletin 9, this earliest report is the second. As the station was organized in 1891 there may have been at least a financial statement for 1891/92, but it does not appear in the bulletins for 1892. The pathological material in the reports is for the most part reprinted from bulletins and press bulletins. Reports for 1894/95, 1895/96, 1913/14, 1914/15, 1915/16 (4th, 5th, 23d-25th) were not issued.

Report.

[2nd], 1892/93: (Bul. 9) No pathology.

[3d], 1893/94: No pathology.

4th, 1894/95-5th, 1895/96: Not published.

[6th], 1896/97: No pathology.

[7th], 1897/98, p. 2: Botanical and entomological department. (In Director's Rept.)

[8th], 1898/99, p. 39-40: Disease among horses [caused by smut (*Ustilago bouteloua*) on pasture grass] L.L. Lewis.

p. 46-86: Summary of results of experiments. J. Fields.

Bordeaux mixture (from Press bul. 38), p. 80-81.

[9th], 1899/1900, p. 58: Root-rot.

p. 66-67: The peach leaf curl (Summary of press bulletin)

p. 104-07: Fungus diseases of grapes. (Repr. in Bul. 59, p. 117-20.)

p. 113-16: Insects and fungicides. (Repr. in Bul. 59, p. 126-28)

10th, 1900/01, p. 39-40: Apple root-rot (Summary of press bulletin)

p. 40-44: Root-rot of fruit trees. (Repr. of Press bul. 71, p. 1-2.)

p. 44-45: Some important fruit diseases (Repr. of Press bul. 73, p. 1)

OKLAHOMA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.).

Report.

10th, 1900/01, p. 112-28: Notes on troublesome insects and plant diseases. E.M. Wilcox.

p. 129-46: The orchard. O.M. Morris.

Spraying, p. 143-44.

11th, 1901/02, p. 67-71: Protection against plant diseases and insects. (Repr. of Press bul. 85)

12th, 1902/03, p. 48-49: Body-blight of pear trees. (Summary of press bul.)

13th, 1903/04, p. 61-62: A disease of the privet (Repr. from Press bul. 100, p. 2)

14th, 1904/05, p. 20-22: Horticultural department. (In Director's Rept.)

p. 23: Botanical and entomological department. (In Director's Rept.)

p. 42: Corn smut. (Repr. from Press bul. 119)

p. 56-57: Apple scab. (Summary of press bulletin)

p. 57-59: Destroying insects and fungi. (Repr. of Press bul. 117)

15th, 1905/06, p. 23-29: Wheat experiments [rust prevalent]. (Repr. or Press bul. 122)

p. 43: Pear blight. (Repr. from Press bul. 133)

p. 44-50: Spray for profit. (Repr. of Press bul. 129)

16th, 1906/07, p. 16-19: Treatment of wheat for loose and stinking smut. (Repr. of Press bul. 136)

p. 24-26: Croom gall. (Repr. of Press bul. 139)

p. 26-31: Protection against plant diseases and insects. (Repr. of Press bul. 140)

17th, 1907/08, p. 12-18: Horticultural department. O.M. Morris.

p. 19-42: Department of botany and ent. J.F. Nicholson.

p. 52: Orchard spraying. (Brief digest of Bul. 76) O.M. Morris & J.F. Nicholson.

p. 78-79: Peach rot. (Repr. of Press bul. 156)

18th, 1908/09, p. 22: Department of horticulture. O.M. Morris.

19th/20th, 1909/10-1910/11, p. 173-87: Spray calendar. (Same as Bul. 92) A.L. Lovett.

21st, 1911/12-22nd, 1912/13: No pathology.

23d, 1913/14-25th, 1915/16: Not issued.

26th, 1916/17, p. 32-35: Department of horticulture. F.M. Rolfs.

27th, 1917/18, p. 27-28: Report of botany department. C.O. Chambers.

p. 40-47: Report of horticultural dept. F.M. Rolfs.

28th, 1918/19, p. 33-34: Report of botany department. C.O. Chambers.

p. 44-50: Report of horticultural dept. F.M. Rolfs.

29th, 1919/20, p. 27-28: Report of botany department. C.O. Chambers.

p. 46-51: Report of horticultural dept. F.M. Rolfs.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

Number. No. 1-134. 1891-1920.

15. Waugh, F.A. Garden vegetables - 1894. 1895.

20. Bogue, E.E. Peach rosette, . 1896.

49. Wilcox, E.M. Arhizomorphic root-rot of fruit trees. 1901.

49. Morris, O.M. A root-rot of fruit trees. 1901. (Popular edition of Bul. 49)

59. Reprints from Bulletins no. 47, 50 and 52, and Annual reports 8 to 11. 1903.

· Fungus diseases of grapes, p.117-20.

· Insecticides and fungicides, p.126-28.

(From Annual report 1898/1900).

64. Morris, O.M. Destroying insects and fungus diseases. 1905.

69. Nicholson, J.F. Small fruits. 1905.

Diseases and insects, and their treatment, p.14-20.

76. Morris, O.H. & Nicholson, J.F. Orchard spraying. 1908.

92. Lovett, A.L. Spray calendar. 1911.

131. Rapp, C.W. Bacterial blight of beans. 1920.

CIRCULAR.

No. 1-48. 1899(?) - 1920.

(No. 1-4, 8-14, 16-19, 21-22, 24, 37-38, 46 and 48 entitled circular of information.)

40. Rolfs, F.M. Cotton anthracnose. 1916.

PRESS BULLETIN.

No. [1]-187. 1893-1914.

No. 181-182, 184-185 not seen.

71. Root-rot of fruit trees, p.1-2. 1901.

85. Protection against plant diseases and insects. 1902.

117. Destroying insects and fungi. 1905.

129. Spray for profit. 1906.

136. Treatment of wheat for loose and stinking smuts. 1906.

139. Crown-gall. 1906.

140. Protection against plant diseases and insects. 1907.

156. Peach rot. 1908.

Brief notes in other numbers.

OREGON AGRICULTURAL EXPERIMENT STATION

ANNUAL REPORT.

[1st]-[6th], [8th]-18th. (Later reports not numbered.)
1888/89-1893/94, 1895/96-1905/06, 1907/08-1919/20. 1889-1921.

The following reports appear only in the reports of the board of regents of the Oregon agricultural college: - 1889/90 [2d], 1891/92 [4th], 1892-3/1893-94 [5th/6th], 1907/08-1911/12, 1914-15/1915-16, 1916-17/1917-18. Of these 1889/90 [2d], 1891/92 [4th] and 1907/08-1911/12 are annual, the others biennial. Separate reports of the station for 1906/07-1911/12 were prepared but never printed. The report for 1894/95 is not in the report of the board of regents of the Agricultural college, possibly never published; that for 1906/07 was not published. (Above information from the collections in the U. S. Department of agriculture, and from data furnished by the Oregon agricultural college library.)

The 11th report (1898/99) states that the work on plant diseases has been assigned to the entomologist, and in the subsequent reports, until about 1916, the investigations in pathology and entomology are more or less connected. From 1905/06 to 1919/20, the reports of the director contain brief material on plant diseases under the headings of various departments. Since 1911 the Crop pest and horticultural reports give in signed articles more complete accounts of the pathological work of the station.

Report.

1st, 1888/89:	No pathology.		
[2nd], 1889/90:	No pathology.		
3d, 1890/91, p. 24-25:	Experimental work in botany. (Outline of subjects of investigation)		
p. 25:	Work of the horticultural department. (Brief statement of work in progress)		
[4th], 1891/92, p. 34-35:	Horticulture.	G. Coote.	
	p. 39-40:	Department of botany.	M. Craig.
[5th/6th], 1892-93/1893-94,			
	p. 28-29:	[Report of] horticulturist.	G. Coote.
	p. 30-31:	[Report of] botanist.	M. Craig.
[7th], 1894/95:	Never published.		
[8th], 1895/96:	No pathology.		
[9th], 1896/97, p. 25-28:	Report of botanist and horticulturist.	U.P. Hedrick.	
[10th], 1897/98, p. 61-65:	Report of botanist.	M. Craig.	
	p. 66-67:	Report of floriculturist and gardener.	G. Coote.
		Spraying for scab, p. 67.	
[11th], 1898/99, p. 28-31:	Report of entomologist.	A.B. Cordley.	
	p. 34-36:	Report of bacteriologist.	E.F. Pernot.
		[Fungus (Tillitea caries) on wheat], p. 36.	
[12th], 1899/1900,			
	p. 24-27:	Report of entomologist.	A.B. Cordley.
	p. 31-32:	Report of bacteriologist.	E.F. Pernot.
		[Oats treated to prevent smut], p. 32.	
[13th], 1900/01, p. 34-35:	Report of entomologist.	A.B. Cordley.	
	p. 46-47:	Report of bacteriologist.	E.F. Pernot.
		[Smutting of cereals investigated], p. 46.	
[14th], 1901/02, p. 59-67:	Department of entomology.	A.B. Cordley.	

OREGON AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

[15th], 1902/03, p. 51-52: Department of entomology. A.B. Cordley.
p. 53-57: Department of bacteriology. E.F. Pernot.
Treating seed wheat to prevent smut, p. 56-57.

16th, 1903/04, p. 37-47: Department of entomology and plant diseases. A.B. Cordley.

17th, 1904/05, p. 74-76: Department of entomology and plant diseases.

18th, 1905/06, p. 17: Experiments for control of potato blight.

1907/08, p. 158-60: Department of entomology.

.. p. 160-61: Department of horticulture.

1908/09, p. 24-25: Department of horticulture.

.. p. 26-27: Department of entomology and plant pathology.

1909/10, p. 21: Department of entomology.

Department of botany and plant pathology.

1910/11, p. 16-17: Department of entomology.

.. p. 17-18: Department of horticulture.

.. p. 25-27: Department of plant pathology and botany.

1911/12, p. 119-22: Department of botany and plant pathology.

1912-13/1913-14, p. 10-12: Department of botany and plant pathology.

.. p. 13-17: Department of entomology.

Insecticide and fungicide investigations, p. 14-16.

1914-15/1915-16, p. 67: Department of botany and plant pathology.

.. p. 68: Hood River [station].
(List of projects.)

1916-17/1917-18, p. 15-19: Crop pest and horticultural investigations.

.. p. 25-26: Field crop experiments.

.. p. 26: Grain smut, and potato disease investigations.

1918-19/1919-20, p. 9-11: Crop pest and horticultural investigations.

.. p. 38-40: Fruit diseases, p. 10-11.

Department of agricultural chemistry.

.. p. 53-59: Yellow berry in wheat, p. 39-40.

.. p. 69-72: Department of botany and plant pathology.

Hood River branch experiment station.

.. p. 72-75: Scab spraying investigations, p. 69.

.. p. 75-78: Root rot investigations, p. 70.

Pear-spraying experiments, p. 70.

Sherman county dry-farm branch station, Moro.

Cereal disease investigations, p. 75.

Southern Oregon branch station, Talent.

Blight resistance in pears, p. 77.

Disinfectants for blight control work, p. 78.

OREGON AGRICULTURAL EXPERIMENT STATION.

CROP PEST AND HORTICULTURAL REPORT.
[1st]-3d. 1911/12-1915/20. 1913-1921.

The 1st and 2d reports are biennial, the 3d covers the years 1915/20. The reports are divided into three sections, Department of horticulture, Department of entomology and Department of botany and plant pathology, but are chiefly articles signed by members of the staff.

Report.

[1st], 1911/12, p. 7-78: Report of Division of horticulture. C.I. Lewis.
A prune survey of Oregon, p. 8-30.
Fungous diseases, p. 18-21.
Seedless and malformed fruit, p. 41-43. F.R. Brown.

p. 177-308: Report of Department of botany and plant pathology. H.S. Jackson.
Apple tree anthracnose, p. 178-197.
Cherry gummosis, p. 198-217.
Crown gall, p. 218-23.
Mushroom root rot of tree and small fruits, p. 226-33.
Diseases of pomaceous fruits, p. 233-48. H.S. Jackson.
Diseases of drupaceous fruits, p. 248-59.
Diseases of nut crops, p. 260-61. H.P. Barss.
Diseases of small fruits, p. 264-70. H.S. Jackson.
Diseases of vegetable crops, p. 270-81. F.D. Bailey.
Field crop diseases, p. 291-308. H.S. Jackson.
Report of Division of horticulture. C.I. Lewis.
Fruit-pit studies in the Willamette Valley, p. 35-37.

Pt. III, p. 203-83: Report of Dept. of botany and plant pathology. H.S. Jackson.
A Pacific coast rust attacking pear, quince, etc., p. 204-12.
A new filbert disease in Oregon, p. 213-23. H.P. Barss.
Bacterial gummosis or bacterial canker of cherries, p. 224-40.
Experimental spraying of prunes for control of brown rot, p. 241-44. F.D. Bailey.
Notes on miscellaneous potato diseases, and potato spraying experiments, p. 245-60.
Notes, observations and minor investigations on plant diseases, p. 261-83. H.S. Jackson.

3d, 1915/20, Pt. I, p. 9-57: Report of Department of horticulture.
The December freeze - some lessons from it, p. 9-14. W.S. Brown.

Pt. III, p. 131-202: Report of Department of botany and plant pathology.
Wool decay in orchard trees in Oregon, p. 132-38. S.M. Zeller.
A serious nematode disease of straw-berry and clover in Oregon, p. 139-44. M.B. McKay.
Peach leaf-curl control, p. 145-51. H.P. Barss.
Gooseberry mildew control, p. 152-55. C.E. Owens.

OREGON AGRICULTURAL EXPERIMENT STATION.

CROP PEST AND HORTICULTURAL REPORT. (cont.)

Report.

3d, 1915/20, Pt. III,

p.131-202: Report of Department of botany and
plant pathology (cont.)
Cylindrosporium leaf-spot of prune
and cherry, p.156-58. H.P. Barss.
Physiological disorders of developing fruits, p.159-66.
Notes on tests with fungicides,
p.166-71. W.A. Smart.
Western yellow tomato blight, p.174-78. M.B. McKay.
Mosaic disease of tomatoes, p.179-84.
Blossom end rot of tomatoes, p.185-86.
Onion smut control, p.187-91. H.P. Barss.
Bean blight and bean mosaic, p.192-96.
Grain smuts and their control,
p.197-202.

BULLETIN

No. 1-175. 1888-1920.

Number.

10. Washburn, F.L. Entomology. 1891.
Experiments with... a combined fungicide and insecticide, p.11-22.
22. Coote, G. Horticulture. 1893.
Gooseberries [Experiments to control mildew], p.10-11.
Notes on peaches [Varieties affected by "curl leaf"], p.19.
27. Craig, M. Plant diseases: their cause and prevention. 1893.
38. Washburn, F.L. Fruit pests. 1895.
Report on fungicides and insecticides, p.3-5.
41. Hedrick, U.P. & Cordley, A.B. Spraying bulletin. 1896.
45. Prunes in Oregon. 1897.
Hedrick, U.P. Diseases of the prune, p.63-75.
48. Cordley, A.B. Spraying. 1898.
57. _____ Brown rot (*Monilia fructigena*, Pers.). 1899.
60. _____ Apple tree anthracnose, a new fungous disease. 1900.
63. Pernot, E.F. A preliminary bulletin on the prevention of smut on oats. 1900.
75. Cordley, A.B. Insecticides and fungicides... 1903.
(Second edition, 1906).
106. _____ Spraying for peach fruit spot. 1909.
Cate, C.C. :

OREGON AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

108. Cordley, A.B. Insecticides and fungicides. 1910.
(Revision of Bulletin 75)
110. Lewis, C.I. & Preliminary frost fighting studies in the Rogue
Brown, F.R. River Valley. 1911.
143. Childs, L. New facts regarding the period of ascospore dis-
charge of the apple scab fungus. 1917.

RESEARCH BULLETIN.

No. 1-3. 1913-1914.

2. Safro, V.I. An investigation of lime-sulphur injury: its
causes and prevention. 1913.

CIRCULAR BULLETIN.

No. 1-21. 1896-1920.

No. 1, 4, 10 and 19 entitled circulars.

7. Jackson, H.S. Fire blight of pear and apple. 1910.
13. Cordley, A.B. & Orchard spraying. 1911(?)
Jackson, H.S. (Crop pest ser.3)
17. Jackson, H.S. Apple tree anthracnose. 1911.
(Crop pest ser.6)

HOOD RIVER BRANCH STATION.

REPORT.

1913/14-1916. 1915-1917.

Report.

1913/14, p.5-24: Plant pathological investigations. H.S. Jackson.
Experiments for control of apple scab,
p.6-18. _____ &
J.R. Winston.
Miscellaneous pathological projects,
p.19-24. _____

1914/15, p.3-29: Report of horticultural work. R.W. Allen.
Conditions of root system of apple trees [affected
by fruit pit and winter injury], p.22-24.
p.30-46: The spraying experiments of 1915 in the Hood River
Valley for the control of apple scab. J.R. Winston &
L. Childs.

OREGON AGRICULTURAL EXPERIMENT STATION.

HOOD RIVER BRANCH STATION (Cont.)

Report.

1916: (Bul. 141)

p. 5-34: Report of entomology and plant path. L. Childs.

Observations on the relation of the height of fruit to apple scab infection, p. 5-17.

Suggestions for the control of the more serious plant diseases occurring at Hood River; p. 28-32.

EASTERN OREGON BRANCH STATION.

BIENNIAL REPORT.

1909/10-1913/14. 1911-1915.

1909/10, p. 29-68: Horticulture.

Co-operative spraying at the cove for apple scab, p. 29.

Fruit diseases and insect pests, p. 52, 54.

1911/12-1913/14: No pathology.

EASTERN OREGON DRY-FARMING BRANCH STATION.

ANNUAL REPORT.

1913/14. 1915.

1913/14, p. 11-32: Variety testing and improvement of field crops.

Effect of cultivation methods on yellow berries in Turkey wheat, p. 15-16.

Effect of the formalin treatment on securing stands of winter wheat, p. 17-18.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT
1887-1916/17. 1888-1919.

Experimental agricultural work was provided for in Pennsylvania in the original plans of the Farmers' high school, founded in 1854, and was actually begun in 1857. In 1867 the College was authorized to purchase and maintain three experimental farms, to be located at the college, in the eastern and the western parts of the state, respectively. The western farm was closed about 1882, but the other farms continued the agricultural experiments until the state station was established in 1887. The results of these early experiments were published in the reports of the Farmer's high school, the Pennsylvania State College and the state agricultural society, in Agriculture of Pennsylvania and in the agricultural press. A series of 16 bulletins was issued by the State college from 1882 to 1886. As the publications of the State College before 1887 contain no mention of investigations on plant diseases, they are not listed here. Bulletin 1 of the station, 1887, gives a full account of the early agricultural work.

All the reports of the station, 1887-1916/17, are issued as Part II of the Report of the State College. The report for 1897/98 covers eighteen months, all of 1897 and the first six months of 1898. The reports of the Departments of botany, horticulture and experimental pathology are chiefly administrative, summarizing work and listing projects. The more complete accounts of pathological experiments are given in signed articles, some of which are, in whole or in part, the same as the bulletins.

Report.		
1887:	No pathology.	
1888, p. 136-63:	Horticultural report. Grapes. Disease and remedies, p. 159.	G.C. Butz.
1889:	No pathology.	
1890, p. 166-67:	Black knot on plums. (Same as Bul. 13, p. 2-4)	
1891, p. 179-86:	Report on miscellaneous botanical work. Treatment of seed potatoes to prevent rot, p. 179-81.	W.A. Buckhout.
1892, p. 130-33:	Cedar apples, p. 186. Spraying.	G.C. Butz.
1893, p. 150-55:	Botanical work.	W.A. Buckhout.
1894-1895:	No pathology.	
1896, p. 85-111:	The peach industry in Pennsylvania. (Same as Bul. 37) The enemies to peach culture, p. 103-11.	G.C. Butz.
1897/98, p. 72-76:	Apples in Pennsylvania. (Same as Bul. 43) Fungous diseases, p. 84-86.	
1898/99, p. 245-56:	Miscellaneous notes in botany and forestry. The undesirability of red and black oaks because of fungous disease, p. 250-52.	W.A. Buckhout.
1899/1900, p. 12:	[Crown gall investigations] (Brief note in Director's Rept.)	
p. 15-154:	The agricultural use of lime. Chlorosis [caused by excess of lime], p. 65. Supposed injurious effects from magnesian lime, p. 73-75. Influence upon insects and injurious fungi, p. 143.	W. Frear.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

1900/01, p. 297-324: The effect of smoke and gas upon vegetation. W.A. Buckhout.
p. 342-44: Report of horticulturist. G.C. Butz.
p. 391-95: The use of hydrocyanic gas in greenhouses [injurious to plants].
1901/02, p. 402-04: Report of horticulturist.
p. 405-14: Crown gall.
1902/03, p. 185-200: An experiment in ginseng culture. (In part same as Bul. 52.)
Enemies of ginseng, p. 198-200.
Spraying grapes for black rot in Erie County, Pennsylvania. (Same as Bul. 66)
1904/05: No pathology.
1905/06, p. 192-93: Report of horticulturist.
1906/07, p. 160-61: Report of horticulturist.
1907/08, p. 203-05: Department of horticulture. R.L. Watts.
1908/09, p. 106-12: Variety test of oats, 1906-1908. C.F. Knoll.
p. 259-96: Resistance to disease, p. 112.
Concentrated lime-sulphur. Its properties, preparation and use. (In part, same as Bul. 92.) J.P. Stewart.
1909/10, p. 267-70: Department of experimental horticulture.
p. 271-79: Preparation and use of concentrated lime sulphur. (Same as Bul. 99)
1910/11, p. 162-73: Variety tests of oats. (Same as Bul. 108) F.D. Gardner & J.A. Runk.
Resistance to disease, p. 172.
p. 399-400: Department of experimental horticulture. J.P. Stewart.
p. 401-511: Factors influencing yield, color, size and growth in apples.
The occasional harmful effect of potash and other fertilizers, p. 461-65.
Relation of fertilization to fire blight, p. 467.
Some results from tree injections, p. 469-70.
1911/12, p. 248: Department of botany. W.A. Buckhout.
p. 249: An arthracnose of red clover caused by *Gloeosporium caulinorum*. H.R. Fulton.
p. 251-53: Apple collar-rot.
p. 253-54: Orange or cedar rust of apple.
p. 254-55: Chestnut bark disease.
p. 493-96: Department of experimental pomology. J.P. Stewart.
p. 564-71: Peaches for Pennsylvania.
Important difficulties [yellows, brown rot, scab], p. 566-67.
p. 571-78: Sulphur-arsenical spray injury and its prevention.
1912/13, p. 147-51: Department of botany. C.R. Orton.
p. 152-56: Physiological studies on the chestnut blight disease. R.A. Waldron.
p. 396-401: Department of experimental pomology. J.P. Stewart.
p. 462-66: Department of horticulture. R.L. Watts.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION.

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1913/14, p.150-51:	Department of botany.	F.D.Kern.
p.152-60:	Collar-blight of apple trees.	C.R.Orton & J.F.Adams.
1914/15, p.233-35;	Department of botany.	F.D.Kern.
p.235-46:	Winter blight of the tomato.	C.R.Orton & W.H.McKinney.
p.467-68:	Department of horticulture.	M.G.Hains.
1915/16, p.33-35:	Department of botany.	F.D.Kern.
p.52-58:	Department of experiment pomology.	J.P.Stewart.
p.61-64:	Department of horticulture.	M.G.Hains.
p.285-91:	Notes on some tomato diseases.	C.R.Orton & W.H.McKinney.
1916/17, p.56-58:	Department of botany.	F.D.Kern.
p.73-81:	Department of experiment pomology.	J.P.Stewart.
p.84-86:	Department of horticulture.	S.V.Fletcher.
p.329-36:	Notes on plant diseases in Pennsylvania for 1916.	J.F.Adams.
p.485-87:	Saving the girdled fruit trees. Collar rot, p.485.	V.C.Gillespie.

BULLETIN.

No. 1-164. 1887-1920.

Number.

13. Butz, G.C.	Black knot on plums, p.2-4. 1890. (Also in Rept. 1890, p.166-67.)
19. _____	Information on spraying fruits. 1892.
37. _____	The peach industry in Pennsylvania. 1896. (Also in Rept. 1896, p.85-111.)
43. _____	The enemies to peach culture, p.21-29, Apples in Pennsylvania. 1898. (Also in Rept. 1897/98, p.72-86.)
62. _____	Fungous diseases, p.84-86. An experiment in ginseng culture. 1903. (In part, same as Rept. 1902/03, p.185-200.)
66. _____	Enemies of ginseng, p.13-14.
92. Stewart, J.P.	Spraying grapes for black rot in Erie County, Penn- sylvania, 1904. (Also in Rept. 1903/04, p.241-52.)
99. _____	Concentrated lime-sulphur; its properties, prepara- tion and use. 1909. (In part, same as Rept. 1908/ 09, p.259-96.)
108. Gardner, F.D. & Runk, J.A.	Preparation and use of concentrated lime-sulphur. 1910. (Also in Rept. 1909/10, p.271-79.)
110. Fulton, H.R. et al	Variety tests of oats. 1911. (Also in Rept. 1910/11, p.162-73.)
	Resistance to disease, p.13.
	The control of insects and diseases affecting horti- cultural crops. 1911.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

115. Stewart, J.P. Concentrated lime-sulphur spray. 1912.
136. Orton, C.R. & Colletar-blight and related forms of fire-blight.
Adams, J.J. 1915.
140. Orton, C.R. Potato diseases. 1916.
156. Kern, F.D. The potato wart disease, a new and serious disease
recently discovered in Pennsylvania. 1919.
160. Adams, J.F. Rusts on conifers in Pennsylvania. 1919.
162. Walton, R.C. The control of frog-eye on apple. 1920.

BULLETIN OF INFORMATION.

No. 1-3. 1896-1902.

3. Butz, G.C. Spray calendar. 1902.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-334. 1888-1920.

The reports of the station have all been issued as part of the reports of the Board of Managers of the State College. From 1912/14 to 1920 these reports have appeared in the Bulletin of the State College. The early reports contain some signed articles. Later the pathological work was more or less incidental, occasional notes appearing in the reports of the divisions or in the Director's reports.

Report.

1st, 1888-2d, 1889: No pathology.

3d, 1890, p. 108-62: Horticultural division. L.F. Kinney.
Downy mildew of potato or potato blight, p. 137-38.
Bordeaux mixture as a preventive
for potato blight, p. 138-52.

4th, 1891, p. 22-35: Field and plot experiments. C.O. Flagg &
Smut of oats, p. 30-31. J.D. Towar.

p. 87-88: Horticultural division. L.F. Kinney.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

5th, 1892, p.129-62: Agricultural division. C.O. Flagg & J.D. Towlar.
 Jensen hot water treatment of oats for prevention of smut, p.133-36.

Trial of varieties of muskmelons, [attack of blight or mildew], p.143.

p.209-15: Horticultural division. L.F. Kinney.
 Experiments in the treatment of potato blight and "scab", p.209-13.

6th, 1893, p.206-67: On the occasional ill-effect of sulphate of ammonia as a manure and the use of air-slacked lime in overcoming the same. H.J. Wheeler & J.D. Towlar.
 [Effect of lime upon potato scab], p.243-44.

7th, 1894, p.99-100: Oat smut. (In Director's Rept.)

p.152-67: Observations upon the growth of various plants upon an upland acid soil before and after liming. H.J. Wheeler et al
 [Injurious effects of lime], p.162-64, 166.

Horticultural division. L.F. Kinney.
 Fungous parasites of the apple and pear, p.184-92.
 The apple rots, p.198-99.

8th, 1895, p.180-82: Horticultural division. (In Director's Rept.)

p.200-14: Further observations for the purpose of determining in how far the results secured in a soil test with a given plant are applicable to others. H.J. Wheeler & G.M. Tucker.
 [Injurious effect of lime], p.209-14.

9th, 1896, p.162-65: [Director's summary of experiments]

p.187-92: Horticultural division. L.F. Kinney.
 Use of fungicides and insecticides, p.187-88.
 Plum rot, p.191-92.

p.203-06: The fairy ring disease of carnations.

p.207-10: The carnation rust.

p.242-72: Further observations upon the growth of various plants upon an acid upland soil, limed and unlimed. H.J. Wheeler & G.M. Tucker
 Methods of treatment of seed tubers for preventing or lessening potato scab, p.271-72.

10th, 1897, p.254-68: On the use of flowers of sulfur and sulfate of ammonia as preventives of the potato scab in contaminated soils. H.J. Wheeler & G.E. Adams.
 Garden lettuce and its cultivation. L.F. Kinney.
 Care of the crop, p.281-82.

p.317-31: The asparagus rust.

11th, 1898, p.192-203: Treatment of seed oats to prevent smut. J.A. Tillinghast.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

12th, 1899, p.127-38: Horticultural division. F.W. Card & G.E. Adams.

p.163-67: Carnation stem-rot, p.131-35. Upon the after effect of sulfur, when applied to soils for the purpose of preventing potato-scab. H.J. Wheeler et al

13th, 1899/1900, p.247-67: Horticultural division. F.W. Card & G.E. Adams.

14th, 1900/01, p.227-44: Carnation stem-rot, p.249-51. Horticultural division.

15th, 1901/02, p.231-62: Carnation stem-rot, p.233-34. Report of horticultural division. F.W. Card & L.P. Sprague.

16th, 1902/03, p.199-229: Report of horticultural division. F.W. Card & A.E. Stene.

17th, 1903/04-19th, 1905/06: Injury to peach foliage from spraying with Bordeaux mixture and Paris green, p.223-24.

20th, 1906/07, p.211-77: No pathology. Horticultural division. F.W. Card.

21st, 1907/08, p.243-85: Currant leaf-spot, p.260. Sodium as a partial substitute for potassium. B.L. Hartwell & F.R. Pember.

22d, 1908/09-23d, 1909/10: No pathology. The growth of wheat seedlings under certain conditions tending to promote chlorosis, p. 269-72.

24th, 1910/11, p.113-22: Division of agronomy. (In Director's Rept.) Experiments in spraying cucumbers and canteloupes [for wilt caused by *Bacillus tracheiphilus*], p.120-22.

p.122-23: Division of horticulture. (In Director's Rept.)

25th, 1911/12-31st, 1918: No pathology.

32d, 1919, p.8-12: Plant differences and needs. (In Director's Rept.) [Effect of lime on cabbage clubroot], p.12.

33d, 1920: No pathology.

BULLETIN.

No. 1-183. 1889-1920.

Number.

14. Kinney, L.F. Notes on potato scab. Bordeaux mixture as a preventive of scab and blight, p.175-87. 1891.

15. Flagg, C.O. Treatment of loose smut of oats, p.3-10.

Kinney, L.F. Fungicides and insecticides, p.11-22. 1892.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

26. Wheeler, H.J. &
Towar, J.D. Observations on the effect of certain fertilizers
in promoting the development of the potato scab...
1893.

27. Kinney, L.F. The leaf blight of the pear, p.3-7. 1894.

30. Wheeler, H.J.
et al Further observations upon the effect of soil condi-
tions upon the development of the potato scab,
p.66-85. 1894.

31. Kinney, L.F. Some special treatment of the apple, pear and
quince. 1895.

33. Wheeler, H.J. &
Tucker, G.H. Upon the effect of barnyard manure and various
compounds of sodium, calcium and nitrogen upon
the development of potato scab, p.51-79. 1895.

38. Kinney, L.F. The Bordeaux mixture: its use in the potato field.
1895.

40. Wheeler, H.J. &
Tucker, G.H. Potato scab, p.80-96. 1896.

41. Kinney, L.F. Spinach. 1896.
Spindling, p.190-02.
Mildew, p.120-21.

44. Celery. 1897.
Black-heart, blights and blast, p.19-25.

52. Tillinghast, J.A. Suggestions as to spraying. 1899.
& Adams, G.E.

53. Wheeler, H.J. The practical bearing of some of the field and
pot experiments conducted at this station. 1899.
Potato scab, p.51-56.

100. Stene, A.E. When to spray; formulas and notes on spraying.
1904.

111. Adams, G.E. Potatoes. 1906.
Concerning potato rot [and late blight], p.68-74.

CIRCULAR BULLETIN.

No. 1-3. 1894.

3. Flagg, C.O. [List of experiments in progress]. 1894.
Horticultural division, p.3-4.

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33d. 1888-1919/20.

Report.

1st, 1888, p.11-57:	Report of botanist and entomologist. Club root of cabbage (Plasmodiophora brassicae - Woronin), p.15-18.	G.F. Atkinson.
2d, 1889-7th, 1894:	No pathology.	
8th, 1895, p.64-68:	Report of horticulturist.	J.F.C. DuPre.
9th, 1896, p.39-44:	Report of horticulturist.	
[10th], 1897, p.8-9:	Report of botanist.	A.P. Anderson.
p.11-13:	Report of horticulturist.	J.F.C. DuPre.
11th, 1898, p.15-17:	Report of botanist. Asparagus rust, p.15-16. Rice smut, p.16.	A.P. Anderson.
p.22-36:	A new disease of the short-leaved pine, p.16-17. Report of horticulturist.	J.F.C. DuPre.
[12th], 1898/99, p.16-20:	Report of botanist. Rice blast, p.16.	P.H. Rolfs.
	Rice smut (<i>Tilletia horrida</i>), p.16-17.	
	Asparagus rust (<i>Puccinia asparagi</i>), p.17-18.	
p.24-27:	Report of horticulturist.	C.C. Newman.
p.27-30:	Report of entomologist.	E. Walker.
	Rice smut [and a cotton boll disease], p.29-30.	
[13th], 1899/1900,		
p.21-28:	Report of botanist.	P.H. Rolfs.
p.29-31:	Report of horticulturist.	C.C. Newman.
[14th], 1900/01, p.13-15:	Report of botanist.	P.H. Rolfs.
p.17-19:	Report of horticulturist.	C.C. Newman.
15th, 1901/02, p.15-16:	Report of horticulturist.	
p.18:	Report of botanist and bacteriologist.	H. Metcalf.
16th, 1902/03, p.11-13:	Report of horticulturist.	C.C. Newman.
p.13-16:	Report of botanist and bacteriologist.	H. Metcalf.
17th, 1903/04, p.10-13:	Report of horticulturist.	C.C. Newman.
p.15-16:	Report of botanist and bacteriologist.	H. Metcalf.
18th, 1904/05, p.12-15:	Report of horticulturist.	C.C. Newman.
p.16-18:	Report of botanist and bacteriologist.	H. Metcalf.
19th, 1905/06, p.15-20:	Report of horticulturist.	C.C. Newman.
p.25-27:	Report of botanist and bacteriologist.	H.D. House.
20th, 1906/07, p.16-22:	Report of horticulturist.	C.C. Newman.
p.27-28:	Report of botanist and bacteriologist.	H.W. Barre.
21st, 1907/08, p.30-31:	Report of botanist and bacteriologist.	
22d, 1908/09, p.17-19:	[Report of Botanical division] Sweet potato rots, p.18. Plant disease survey, p.18-19.	
	Cotton anthracnose investigation.	
	Report of progress.	
23d, 1909/10, p.23-29:	Report of botanist and plant path, Cotton anthracnose, p.23-25. Sweet potato rots, p.25. Use of self-boiled lime sulphur in combating scab and brown rot of peach, p.27-28, Plant disease survey of South Carolina. Report of progress, p.29-39.	

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

24th, 1910/11, p. 19-23: Report of botanist and plant path. H.W. Barre.
Cotton and cowpea wilt work, p. 21-22.
p. 23-43: Cotton anthracnose. Report of progress.
p. 43-49: The detection of anthracnose in
cotton seed. W.B. Aull, Jr.

25th, 1911/12, p. 13-19: Sweet potato rots. H.W. Barre.
Report of horticulturist. C.C. Newman.
p. 20-27: Report of botanical division.
Cotton anthracnose, p. 20-24.
Cotton and cowpea wilt work, p. 25-26.
26th, 1912/13, p. 14-20: Report of botany division.
Cotton anthracnose, p. 15-17.
Cotton and cowpea wilt work, p. 18-19.
27th, 1913/14, p. 20-25: Report of botanist and plant path.
Cotton anthracnose, p. 20-21.
Plant disease survey, p. 22-24.
Cotton and cowpea wilt work, p. 25-26.
28th, 1914/15, p. 21-26: Report of botanist and plant path.
Cotton anthracnose, p. 21-23.
Bacterial diseases of cotton, p. 24-25.
Plant disease survey, p. 25.
Cotton and cowpea wilt and root-knot work, p. 25-26.
29th, 1915/16, p. 16-20: Report of botanist and plant path. H.W. Barre.
Cotton anthracnose, p. 16-17.
Angular leaf spot of cotton, p. 18-19.
Cotton and cowpea wilt and root-knot work, p. 19-20.
30th, 1916/17, p. 18-21: Report of division of botany and plant
pathology. H.W. Barre.
Cotton anthracnose, p. 18.
Angular leaf spot of cotton, p. 19-20.
Cotton and cowpea wilt and root knot work, p. 21.
31st, 1917/18, p. 21-24: Report of botany [and plant pathology]
division. H.W. Barre.
Cotton anthracnose, p. 21-22.
Angular leaf spot of cotton, p. 22-23.
Report of division of botany [and
plant pathology]. H.W. Barre.
Cotton anthracnose, p. 29-31.
Plant disease survey, p. 32-33.
33d, 1919/20, p. 35-37: Report of botany [and plant pathology].
Cotton anthracnose, p. 35-36.
p. 44-51: Report of horticultural division. C.C. Newman.

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1, 1-8, n.s., 1-202. 1886, 1888-1890.

Number.

36. Anderson, A.P. Diseases of plants... 1898.
38. _____ The asparagus rust in South Carolina. 1899.
41. _____ Rice blast and a new smut on the rice plant.
Walker, E. Preliminary report on treatment for rice smut. 1899.
57. Fungicides. 1900.
58. Newman, C.C. Grapes. 1901.
Spraying, p. 15-27.
65. San Jose scale... and rules and regulations adopted by the State
board of entomology [to prevent the introduction
or dissemination of destructive pests and plant
diseases]. 1901.
69. Newman, C.C. The brown rot of peaches and plums. 1902.
116. Orton, W.A. & Garrison, W.D. Methods of spraying cucumbers and melons. 1905.
121. Metcalf, H. A preliminary report on the blast of rice with
notes on other rice diseases. 1906.
141. Barre, H.W. & Conradi, A.F. Treatment of plant diseases and injurious insects
in South Carolina. 1909.
153. Barre, H.W. Tomato diseases. 1910.
164. _____ Cotton anthracnose. 1912.
184. Rolfs, F.M. Angular leaf spot of cotton. 1915.
198. Faulwetter, R.C. The angular leaf spot of cotton. 1919.

CIRCULAR.

No. 1-30. 1910-1918.

1. Barre, H.W. Cotton anthracnose. 1910.
14. Rules and regulations of the South Carolina crop pest commission
governing the transportation of nursery stock. 1913.
25. Conradi, A.F. & Barre, H.W. Spraying program for orchard and vineyard in South
Carolina. 1914.
29. Barre, H.W. & Seal, J.L. Tomato diseases. 1917.

SEPARATES FROM JOURNAL OF AGRICULTURAL RESEARCH.

S.C.-1. Faulwetter, R.S. Dissemination of the angular leaf-spot
cotton. 1917.
S.C.-2. _____ Wind-blown rain, a factor in disease dissemina-
tion. 1917.

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-9th. 1887/88-1895/96. 1896/97-1919/20.

The 1st-2d, 1887/88-1889/90, reports are of the Dakota agricultural experiment station. After the state was divided, this station at Brookings was continued as the South Dakota station. The reports on pathological work are mostly brief notes of little importance.

Report.

1st, 1887/88: No pathology.

2d, 1888/89, p.19-24: Wheat, oats and barley. (Same as Bul. 11) L. Foster.
[List of varieties of wheat and oats, showing rust prevalence], p.19-22.

3d, 1889/90-4th, 1890/91: No pathology.

5th, 1891/92, p.12-13: Department of botany.

6th, 1892/93, p.12-13: Department of botany and entomology. T.A. Williams.

7th, 1893/94, p.28-30: Department of botany and entomology.

8th, 1894/95: No pathology.

9th, 1895/96, p.20-25: Department of botany. D.A. Saunders.
Fungous diseases, p.24-25.

1896/97-1898/99: No pathology.

1899/1900, p.30-31: Report of botanist and entomologist.

1900/01-1902/03: No pathology.

1903/04, p.18-21: Department of botany and entomology. W.A. Wheeler.
Plant diseases, p.19-20.

1904/05, p.12: Preliminary experiments with vapor treatments for the prevention of stinking smut of wheat. (Summary of Bul. 89).

 p.25-30: Department of botany and entomology.
 Plant physiology and pathology, p.25-26.

1905/06, p.14-16: Department of botany and entomology.

1906/07: No pathology.

1907/08, p.8: Rusts of cereals and other plants.
(Summary of Bul. 109)

 p.16-17: Department of botany and entomology. E.W. Olive.

1908/09, p.34: Botanical department.

1909/10, p.24: Botanical department.

1910/11, p.23-24: Botanical department.

1911/12, p.26-27: Botanical department.

1912/13-1913/14: No pathology.

1914/15, p.22-25: Horticultural department. N.E. Hansen.
Progress in pear [immunity to blight], p.23.

1915/16: No pathology.

1916/17, p.25-38: Department of horticulture.
Breeding pears immune to blight, p.27-29.

1917/18, p.22-27: Department of horticulture.
Breeding pears immune to blight, p.23-24.

1918/19, p.18-35: Department of horticulture.
Breeding pears immune to blight, p.25-27.

1919/20: No pathology.

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-191. 1887-1920.

Number.

11. Foster, L. Small grain. 1889. (Also in 2d Ann. rept., p.19-24.)
[List of varieties of wheat and oats showing rust prevalence, p.3-6.]

17. _____ Small grain. 1890.
Smuts, p. [15-24].

29. Williams, T.A. Notes on parasitic fungi observed at Brookings during the summer of 1891. 1891.

33. _____ Some plants injurious to stock. 1893.
Ergot, p.38-41.

35. Williams, T.A. Fungous diseases.
Corbett, L.C. Fungicides and insecticides. 1893.

48. _____ Experiments with potato scab. 1896.

75. Saunders, D.A. Treatment of smuts and rusts. 1902.

89. Wheeler, W.A. Preliminary experiments with vapor treatments for the prevention of the stinking smut of wheat. 1904.

109. Olive, E.W. Rusts of cereals and other plants. 1908.

110. Willis, C. Progress in variety test of oats.
[Rust], p.422-33.
Oat smut, p.449-50.

126. _____ & Alkali soils. 1911.
Bopp, J.V. How plants are injured by alkali, p.76-77.

159. Hansen, N.E. Progress in plant breeding. 1915.
Pears immune to blight, p.187-91.

176. Champlin, M. & Potato culture in South Dakota. 1917.
Winright, G. Seed treatment, p.732-39.
Spraying and prevention of potato pests, p.751-55.

TENNESSEE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1883-1886 (Not numbered). 1st-28th. 1888-1915.

In June 1882 a state station was established as part of the University. Under this organization two reports and eight bulletins were issued. The bulletins are not listed here as they contain no material on pathology. The station was reorganized under the Hatch act in 1887, and the present series of reports and bulletins started with new numbering. The Division of botany, and occasionally other divisions, give brief progress reports of pathological work.

Report.

1883/84, p.61-67: Enemy of wheat-rust. (In Director's Rept.)

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TENNESSEE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

1885/86, p. 92-97:	Microscopic enemies of man, animals and plants. (In Director's Rept.) [Plant diseases], p. 96-97.	
p. 161:	Pear blight. (In Director's Rept.)	
1st, 1888, p. 16-16:	Report from division of botany and hort. F.L.Scribner.	
2d, 1889, p. 12-13:	Report of division of botany and hort.	
3d, 1890-6th, 1893:	No pathology.	
7th, 1894, p. 14:	Botanical division.	S.M. Bain.
8th, 1895, p. 12-13:	Report of botanist.	
9th, 1896, p. 11-12:	Report of botanist.	
p. 16-19:	Notes on certain plant diseases in Tennessee.	
10th, 1897, p. 160-61:	Report of botanist.	
11th, 1898, p. 13-14:	Report of botanist.	
12th, 1899, p. 5:	[Brief note on peach rot.] (In Director's Rept.)	
13th, 1900, p. 27-28:	Report of botanist.	
14th, 1901, p. 9-10:	Report of botanist.	
15th, 1902, p. 10:	Report of botanist.	
16th, 1903, p. 97-98:	Report of botanist.	
17th, 1904, p. 38-39:	Report of botanist.	
18th, 1905, p. 51-53:	Clover diseases. (In Director's Rept.) A preliminary note on clover diseases in Tennessee, p. 52-53. (Reprint from Science, Oct. 20, 1905.)	S.M. Bain & S.H. Essary.
p. 55-57:	Report of botanist.	S.M. Bain.
19th, 1906, p. 99-100:	Report of botanist.	
p. 103-04:	Report of horticulturist.	C.A. Keffer.
20th, 1907, p. 7-8:	Report of botanist.	S.M. Bain.
21st, 1908, p. 112-14:	Botanical and pathological investigations, p. 7. Report of botanist.	
22d, 1909, p. 96-98:	Plant diseases, p. 113. Report of botanist.	
p. 107-08:	Plant diseases, p. 96-97. Report of horticulturist.	C.A. Keffer.
23d, 1910, p. 95-98:	Spraying, p. 107. Report of botanist.	
p. 106-07:	Clover diseases, p. 97. Apple and pear blight, p. 97-98. Disease-resistance, p. 98. Report of horticulturist.	
p. 109-12:	Spraying, p. 106. Report of state entomologist.	G.M. Bentley.
24th, 1911, p. 171-73:	Inspection of nurseries, foreign nursery stock [and orchardis], p. 110-11. Report of botanist.	S.M. Bain.
p. 178-82:	Propagation and success with resistant clover, p. 171. Blight-resistant tomato, p. 172. Report of state entomologist.	
	Spraying, p. 180-81. Inspection of nurseries, p. 181.	G.M. Bentley.

TENNESSEE AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.		
25th, 1912, p. 51-52:	Report of botanist. Fusarium wilt of tomato, p. 51-52. Apple and pear blight, p. 52. Disease-resistance in plants, p. 52.	S.M. Bain.
p. 60-65:	Report of state entomologist. Inspection of nurseries, p. 64.	G.M. Bentley.
26th, 1913, p. 144-45:	Report of botanist.	S.M. Bain.
27th, 1914, p. 273-74:	Report of botanist. Anthracnose resistance of red clover, p. 273.	
28th, 1915, p. 118-20:	Report of botanist.	S.M. Bain.

[BIENNIAL] REPORT OF COOPERATIVE AND EXTENSION WORK

IN AGRICULTURE IN MIDDLE TENNESSEE.
[1st-2d]. 1907/08-1909/10.

[1st], 1907/08, p. 65-67:	Report on the propagation of resistant clover.	S.M. Bain.
[2d], 1909/10, p. 78-90:	Tobacco insects of Tennessee. Injury to tobacco by the use of Paris green, p. 88-89.	A.C. Morgan.

BULLETIN.

Vol. 1, no. 1 - vol. 18, no. 4; no. 75-122. 1888-1919.

Vol. No.

2.	2. Scribner, F.L.	Diseases of the Irish potato. 1889.
4.	1. Watts, R.L.	Black-knot of the plum and cherry. 1891.
4.	4. Scribner, F.L.	Some fungus diseases of the grape. 1891.
8.	1. Watts, R.L.	Spraying apparatus, p. 3-13.
	Bain, S.M.	Fungicides, p. 18-19.
	Chambliss, C.E. &	
	Bain, S.M.	Spraying calendar, p. 20-23.
8.	3. Bain, S.M.	Some experiments with fungicides on peach foliage. 1895.
15.	2. _____	The action on leaves with special reference to the injurious effects of fungicides on peach foliage. A physiological investigation. 1902.
18.	4. Bentley, G.M.	The control of insects, fungi and other pests. 1905.
19.	1. Bain, S.M. & (75) Essary, S.H.	Selection for disease resistant clover. A preliminary report. 1906.

TEENESSEE AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

88. Keffer, C.A. Insuring the peach crop [by spraying]. 1910.
95. Essary, S.H. Notes on tomato diseases with results of selection
for resistance. 1912.
99. Bentley, G.M. Suggestions on preparation and use of spray formulas.
1913.
106. _____ Suggestions for the control of injurious insects and
plant diseases. 1914.
117. _____ Suggestions for the control of injurious insects and
plant diseases. 1917.
121. _____ Pruning and spraying the home orchard and vineyard.
1918.

PRESS BULLETIN.

No. 1-44. 1899-1917.

19. Bain, S.M. Formulas for spraying mixtures. 1900.
24. Keffer, C.A. Spraying the peach. 1910.
41. Essary, S.H. Sweet potato rots in Tennessee. 1915 (?)

SPECIAL BULLETIN.

A-E. 1889-1890.

C. Scribner, F.L. Treatment of certain fungous diseases of plants.
1890.

TEXAS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-33d. 1888-1919/20.

From 1899/1900 - 1900/01 reports were made by the horticulturist and mycologist, but no work on plant diseases was reported. No reports were published from 1902/03 to 1910/11. During this period, probably, a Division of Plant pathology and physiology was started. It is first mentioned in the 25th report, 1911/12, but no information given as to when it was organized. The subsequent reports of the Director contain brief accounts of this division and of the Division of horticulture, but the more detailed results of investigations appear in bulletins.

Report.

1st, 1888, p.11: Cotton disease - "root rot" or "cotton blight".
(In Director's Rept.)

p.21-34: Report of chemist. H.H.Harrington.

Analysis of soils - cotton blight, p.24-25.

p.35-44: Report of horticulturist. T.L.Brunk.

Peach and plum rust (*Fuccinia pruni-spinosa*, Pers.), p.38-40.

p.50-65: Root rot of cotton, or "cotton blight."
(Repr. of Bul. 4.) L.H.Pammel.

2d, 1889, p.17-53: Report of horticulturist.
(Repr. of Bul. 8) T.L.Brunk.

Notes on experimental vineyard [diseases], p.19-30.

3d, 1890-5th, 1892: Cotton root-rot. (Repr. of Bul.7) L.H.Pammel.

No pathology.

6th, 1893, p.405-07: Report of chemist. H.H.Harrington.

[Notes upon investigation of remedies for "cotton root rot" or "cotton blight"], p.405-07.

p.413-19: Report of horticulturist. R.H.Price.

7th, 1894, p.617-21: Report of horticulturist.

8th, 1895, p.756-58: Report of horticulturist.

9th, 1896-11th, 1898/99: No pathology.

12th, 1899/1900, p.295: [Brief note on root rot in alfalfa and cotton].
(In Director's Rept.)

13th, 1900/01: No pathology.

14th, 1901/02: No pathology.

15th, 1902/03-
24th, 1910/11: Not published.

25th, 1911/12, p.17: Division of horticulture. (In Director's Rept.)

p.18-19: Division of plant pathology and physiology.
(In Director's Rept.)

p.78: Cowpea variety tests [resistance to root rot.]

26th, 1912/13, p.23: Plant pathology and physiology.

27th, 1913/14, p.12-13:
p.16: Horticulture.

Plant pathology and physiology.

28th, 1914/15, p.13-14:
p.18-19: Horticulture.

Plant pathology and physiology.

29th, 1915/16, p.9-10:
p.14-16: Horticulture.

Plant pathology and physiology.

30th/31st, 1916-17/
1917-18, p.10:
p.16-17: Horticulture.

Plant pathology and physiology.

TEXAS AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (CONT.)

Report.

32d, 1918/19, p. 12-14: Plant pathology and physiology.

33d, 1919/20, p. 32-36: Preventable plant diseases cause heavy annual losses. (In Director's Rept.)

Watermelon wilt, anthracnose, stem-end rot and blossom-end rot, p. 33.

Cotton root-rot, p. 34.

Pink root of onions, p. 34-35.

Black-mold of ear corn, p. 35-36.

Storage diseases of sweet potato, p. 36.

BULLETIN.

No. 1-271. [1888]-1930.

Number.

4. Pammel, L.H. Root rot of cotton, or "cotton oil". 1888.
(Also in 1888 Rept., p. 60-65.)

7. _____ Cotton root-rot. 1890. (Also in 1889 Rept., p. 61-91.)

8. Brunk, T.L. Work in horticulture. 1889. (Also in 1889 Rept., p. 17-53.)
Notes on experimental vineyard [diseases], p. 5-16.

9. Jennings, H.S. Some parasitic fungi of Texas, p. 23-29. 1890.

22. Curtis, G.W. Alfalfa root rot. 1892.

23. Price, R.H. Black rot of the grape (*Phytophthora bidwellii*, Sachs.): life history, treatment. 1892.

32. _____ Varieties of plums, p. 477-95. 1894.

36. _____ Combatting injurious insects and fungi, p. 493-95.

39. _____ Vegetables: Sweet potatoes. 1895.
Fungus diseases, p. 622-24.

42. _____ The peach. 1896.
Fungous diseases, p. 840-41.

62. Price, R.H. & The Irish potato. 1897.
White, E.A. Diseases, p. 923-26.

65. Kyle, E.J. & The fig. 1902.
Green, E.C. Insects and diseases, p. 26-27.

80. Kyle, E.J. The tomato. 1903.
Diseases, p. 19-23.

88. Munson, T.V. Peach growing in Texas. 1905
Orchard pests, p. 26-29.

208. Potts, A.T. Length of life of various species and varieties of grapes; profitability; and by what diseases seriously affected. 1906.

211. Nees, H. The fig in Texas. 1917.
Field experiments with crown gall, 1913-1917. 1917.

249. Taubenhaus, J.J. Field diseases of the sweet potato in Texas. 1919.

250. _____ Storage and diseases of the sweet potato in Texas.
et al 1919.
Diseases, p. 13-16.

TEXAS AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

260. Tsubenahus, J.J. Wilts of the watermelon and related crops (Fusarium wilts of cucurbits.) 1920.
261. _____ Diseases of grains, sorghums, and millet, and their control in Texas. 1920.
270. _____ A study of the black and the yellow molds of ear corn. 1920.

UTAH AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-17th. 1890-1905/06.

The early reports contain little concerning plant diseases. No reports were issued after 1905/06.

Report.

1st, 1890-3d, 1892: No pathology.
4th, 1893, p. 201-49: Grain and forage crops. A.A. Mills.
Treatment for smut, p. 225-28.
5th, 1894-13th, 1901/02: No pathology.
14th, 1902/03, p. xix-xxvi: Department of horticulture. W.H. Hutt.
Sugar beet diseases, p. xxii-xxvi.
15th, 1903/04: No pathology.
16th, 1904/05: No pathology.
17th, 1905/06, p. xx-xxiv: Department of horticulture. R.S. Northrop.
[Note on pear blight], p. xxi.

BULLETIN.

No. 1-177. 1890-1920.

Number.

49. Sears, F.C. Spraying. 1897.
55. Hedrick, U.P. Orchard pests. 1898.
65. Close, C.P. Plant diseases and insect pests. 1900.
84. Merrill, L.A. The grain smuts. 1903.
& Eliason, B.F.
85. Hutt, W.N. Pear-blight. 1903.
88. Widtsoe, J.A. The relation of smelter smoke to Utah agriculture. 1903.
108. Stewart, R. & Stephens, J. The effect of formalin on the vitality of seed grain. 1910.
128. Ballantyne, A.B. Blooming periods and yields of fruit in relation to minimum temperatures. 1913.

UTAH AGRICULTURAL EXPERIMENT STATION.

BULLETIN (Cont.)

Number.

151. West, F.L. & The freezing of fruit buds. 1917.
Edlefsen, N.E.
155. Ball, E.D. The beet leafhopper and the curly-leaf disease
that it transmits. 1917.
161. West, F.L. & Orchard heating. 1917.
Edlefsen, N.E.

CIRCULAR.

No. 1-43. 1904-1920.

40. Stewart, G. Potato production. 1919.
Diseases, p.23-27.

[UNNUMBERED CIRCULAR]

1899, 1904.

Hedrick, U.P. Spraying. 1899.

VERMONT AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT.

1st-31st. 1887-1917/18.

The early reports of the botanist contain important articles on plant diseases, some of which are signed. Occasional notes are found in the report of the horticulturist. Since 1910/11, a plant pathologist has been on the station staff, but the only reports are short administrative accounts of progress in the Director's reports.

Report.

1st, 1887: No pathology.
2d, 1888, p.100-27: Report of horticulturist. [C.W. Minott]
Potato blight, p.121.
3d, 1889, p.99-144: Report of horticulturist.
Experiment with a fungicides [on potatoes], p.117-18.

VERMONT AGRICULTURAL EXPERIMENT STATION.

ANNUAL REPORT (Cont.)

Report.

4th, 1890, p. 129-44: Report of botanist. L.R. Jones.
 Potato blight and rot, p. 131-38.
 [Notes upon some other fungous diseases], p. 138-44.

p. 145-85: Report of horticulturist. C.W. Minott.
 Bordeaux mixture with Paris green, p. 183.

5th, 1891, p. 128-43: Report of botanist. L.R. Jones.
 Spraying for potato blight and rot, p. 129-32.
 Prevention of apple and pear scab by spraying, p. 132-33.
 Apple rust and cedar apples, p. 133.
 A spot-disease of the Baldwin apple, p. 133-34.
 Brown rot of plums, p. 134-35.
 Oat smut, p. 135-38.
 Lettuce mildew and lettuce rot, p. 141.

6th, 1892, p. 25: Abstract of Bul. 28. L.R. Jones.
p. 56-88: Report of botanist.
 Potato diseases, p. 57-72.
 Oat smut, p. 73-82.
 Orchard diseases, p. 82-84.
 Spot diseases of cucumbers (*Cladosporium*
 cucumerinum, E. and A.), p. 84.
 Green-house diseases, p. 84-88.

7th, 1893, p. 20: Abstract of Bul. 40.
p. 41-69: Report of botanist.
 Experiments in spraying potatoes, p. 40-60, 66-69.
 Loss from oat smut in Vermont in 1893, p. 60-65.

8th, 1894, p. 81: Abstract of Bul. 44.
p. 93-118: Report of botanist. L.R. Jones.
 Spraying potatoes, p. 93-106.
 Prevention of potato scab, p. 106-08.
 Prevention of apple and pear scab, p. 109-13.
 Occurrence of oat smut in 1894, p. 114.
 Some studies upon carnation rust, p. 115-18.

9th, 1895, p. 35-36: Abstract of Bul. 49.
p. 66-115: Report of botanist.
 Potato blights, p. 66-88.
 Bordeaux mixture, p. 88-98.
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12th, 1898/99, p.133-34: Abstract of Bul. 66.
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p.265-69: Potato spraying experiments. &
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20th, 1906/07, p.328-34: The occurrence of plant diseases in 1907. N.J.Giddings.
p.334-42: Potato spraying experiments. L.R.Jones & N.J.Giddings.
p.342-47: The damping off of coniferous seedlings. L.R.Jones.
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21st, 1907/08,
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24th, 1910/11, p.xix-xx: Disease resistance of potatoes.
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26th, 1912/13, p.xix-xx: Plant pathology.
27th, 1913/14, p.xix: Plant pathology.
28th, 1914/15, p.xxii-xxii: Plant pathology.
29th, 1915/16, p.xix-xx: Plant pathology. (In Director's Rept., also issued as Bul. 199).
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9. Cooke, W.W. Smut in oats, p.2-3. 1888.
24. Jones, L.R. Potato blight and rot. 1891.
28. Plant diseases. 1892.
32. Oat-smut. 1893. (Newspaper bul. 6)
36. Potato blights and their remedies. 1893.
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40. Spraying potatoes. 1893.

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49. Potato blights and fungicides. 1896.
66. Club root and black rot - two diseases of the cabbage and turnip. 1893.
72. Certain potato diseases and their remedies as investigated at the ... station, 1889-1899. 1899.
85. Potato scab and its prevention. 1901.
106. ^{Edson, A.V.} Abstract of sixteenth annual report, 1902-03. 1904.
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____ Potato diseases and their remedies,
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111. Abstract of seventeenth annual report, 1903-04. 1905.
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113. Stuart, W. Preparation and use of sprays; spray calendar. 1905.
115. Disease-resistant potatoes. 1905.
119. ^{Hillis, J.L.} Abstract of eighteenth annual report, 1904-05. 1906.
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____ Influence of stock on scion - susceptibility to "plum pocket" or "leaf curl", p.42.
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Jones, L.R. & The leaf blotch disease of the potato
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____ & Potato spraying experiments, p.104-08.
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133. ^{Hillis, J.L.} Abstract of twentieth report, 1906-07. 1908.
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147. The bacterial soft rots of certain vegetables. 1909.
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148. Giddings, N.J. A bacterial soft rot of muskmelon caused by *Bacillus melonis* n.sp. 1910.

153. Lutman, B.F. Plant diseases; potato spraying. 1910.

156. Hawes, A.F. The management of Vermont forests with special reference to white pine. 1911.
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157. Clifford, C.M. The damping off of coniferous seedlings. 1911.

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184. Lutman, B.F. & Cunningham, G.C. Potato scab. 1914.

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186. Cummings, M.B. & Lombard, P.M. Farm apple storage. 1915.
[Protective dips and mechanical media to check decay], p. 104-29.

191. Abbott, F.H. The red rot of conifers. 1915.

196. Lutman, B.F. Some studies on Bordeaux mixture. 1916.

203. "Mony meikles mak a muckle" III. 1917.
Aldrich, P.H. The winter storage of roots, p. 3-9.
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214. Lutman, B.F. Tip burn of the potato and other plants. 1919.

215. _____ Resistance of potato tubers to scab. 1919.

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NEWSPAPER BULLETIN.

No. 1-14. 1890-1898(?).

Number.

2. Jones, L.R. The potato rot and apple scab. 1890 (?).
6. _____ Oat-smut. 1893. (Same as Bul. 32)
9. _____ Potato blights and their remedies. 1893.
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Vt.-1. Bartram, H.E. Effect of natural low temperature on certain fungi and bacteria. 1916.

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ANNUAL REPORT.
1889/90-1918/19.

The reports on plant pathology are chiefly brief administrative accounts of work in progress. About 1907 a plant pathologist was appointed, and from 1908/09 thru 1915/16 the reports contain important signed articles on plant diseases.

Report.

1889/90, p.7-8:	Report of botanist and entomologist.	W.B. Alwood.
1890/91, p.8-10:	Department of hort., ent. and mycology. Mycology, p.9.	_____
1891/92, p.8-9:	Department of hort., ent. and mycology.	_____
1892/93, p.9-10:	Department of hort., ent. and mycology.	_____
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1903/04, p.25-26:	Department of entomology. [Crown gall], p.25-26.	J.M. Phillips.
p.26:	Department of mycology.	W.A.P. Moncure.
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p.23-25:	Division of plant pathology. (In Director's Rept.)	_____
p.35-36:	Report of plant pathologist.	H. S. Reed.
p.78-99:	Heterosporium variabile Cke., its rela- tion to Spinacia oleracea and environ- mental factors.	J.S. Cooley. &
p.99-119:	Plant diseases in Virginia in the years 1909 and 1910.	_____

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p.28-30: Report of plant pathologist.
p.35-50: Plant diseases in Virginia in the years 1911 and 1912.
p.51-77: The enzyme activities involved in certain fruit diseases.
p.78-81: A study of the winter resistance of the Uredospores of *Puccinia coronata*.
p.82-90: The effect of *Gymnosporangium* on the transpiration of apple trees.
p.91-94: The effect of the cedar rust upon the assimilation of carbon dioxide by apple leaves.
p.95-115: Studies on *Phyllosticta* and *Coniothyrium* occurring on apple foliage.

1912-13/1913-14,
p.10: Alfalfa diseases; apple tree root rot. (Projects described in Director's Rept.)
p.21-23: Report of plant pathologist and bact.
p.37-58: Notes on plant diseases in Virginia observed in 1913 and 1914. (Tech.Bul.2)
p.160-64: The amount of arsenic in solution when lead arsenate is added to different spray solutions. (Tech.bul.8)

1914-15/1915-16,
p.15-16: Report of plant pathologist and bact.
p.147-60: Studies on methods of protecting ringing wounds on apple trees to promote their healing.
p.179-83: Dusting for cedar rust. (Also separately printed).
p.184- 86: Dusting for peach scab. (Also separately printed).
p.187-92: Plant diseases in Virginia in 1915 and 1916. (Also separately printed.)

1916/17, p.11-20: Horticultural department. (In Director's Rept.)
Control of fire blight, p.18-19.
p.34-35: Plant pathology and bacteriology departments. (In Director's Rept.)

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H.S. Reed. _____ & C.H. Crabill.
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W.B. Ellett & J.T. Grissom.
F.D. Fromme.
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Number.

6. Alwood, W.B. &
Price, R.H.
15. Alwood, W.B.
(n.s.v.1,no.4)
17. _____
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24. _____
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40. _____
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49. _____
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67. _____
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102. _____
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134. _____ &
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188. Scott, W.M.

191. Reed, H.S.
192. _____
195. _____

201. Starcher, G.C.

203. Reed, H.S. et al

209. Crabill, C.H.
210. Starcher, G.C.

213. Fromme, F.D. &
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220. _____ &
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222. Fromme, F.D.
223. _____ &
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Variety tests with potatoes. 1890.
The blight or rot, p. 18-20.
Treatment of diseases of the grape. 1892.

Four diseases of the apple. 1892.

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Ripe rot, or bitter rot, of apples. 1894.

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Notes on the plum orchard. 1896.
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The crop pest law. 1899.

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p. 31-40. 1902.

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gall of apple trees. 1902.
Orchard studies. XV. The bitter rot of apples.
1902.
The use of lime-sulphur sprays in the summer spraying
of Virginia apple orchards. 1910.
Cabbage club root in Virginia. 1911.
Tomato blight and rot in Virginia. 1911.
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experiments in 1910 and 1911. 1912.
Preparation of concentrated lime-sulphur solution
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Experiments on the control of the cedar rust of
apples. 1914.
The frog-eye leaf spot of apples. 1915.
A stone-fruit spray made from hydrated-lime and
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The Nematode disease of wheat in Virginia. 1919.
Dusting experiments in peach and apple orchards.
1919.

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No. 1-8. [1908]-1909.

Number.

7. Price, H. L. Fighting the insect pests and diseases of orchard, field and garden crops. 1909. (Revised 1910).

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Va. (Blacksburg)-1. Fromme, F.D. & Black rootrot of the apple. 1917.
Thomas, H.E.

Va. (Blacksburg)-2. Fromme, F.D. & Angular-leaf spot of tobacco, an
Murray, T.J. undescribed bacterial disease. 1919.

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No. 1-20. 1915-1920.

Number.

2. Reed, H.S. & Notes on plant diseases in Virginia observed in
Crabill, C.H. 1913 and 1914. 1915. (Also in Rept. 1912-13/1913-
14, p. 37-58.)

8. Ellett, W.D. & The amount of arsenic in solution when lead
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9. Reed, H. S. & The cedar rust disease of apples caused by Gym-
Crabill, C.H. nosporangium juniperi-virginianae Schw. 1915.

17. Drinkard, A.W. Jr. Studies on methods of protecting ringing wounds
& Ingham, A.A. on apple trees to promote their healing, p. 147-
160. 1917. (Also in Rept. 1914-15/1915-16,
p. 147-60)

VIRGINIA TRUCK EXPERIMENT STATION. (NORFOLK)

BULLETIN

No. 1-33/34. 1909-1920/21.

Number.

1. Harter, L.L. The control of malnutrition diseases of truck
crops. 1909.

VIRGINIA TRUCK EXPERIMENT STATION. (NORFOLK)

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3. Johnson, T.C. Some seed potato questions in 1909. 1909.
[Late blight (*Phytophthora infestans*) and black leg], p. 52-53.

4. Harter, L.L. Spinach troubles at Norfolk and the improvement of trucking soils. 1910.

5. Johnson, T.C. Spraying cucumbers and cantaloupes. 1911.

7. _____ Truck crop potatoes. 1912.
Treatment for scab, p. 147-49.

18. McClintock, J.A. Spraying, p. 149-52.

19. Johnson, T.C. & Rosa, J.T. A disease of cold-frame parsley (caused by *Sclerotinia libertiana*). 1916.

20. McClintock, J.A. Sweet potato culture, 1916.
Diseases, p. 412-13.

22. _____ Sclerotinia blight, a serious disease of snap beans caused by *Sclerotinia libertiana*, Fockl. 1916.

26. Zimmerly, H.H. Sweet-potato diseases. 1917.

27. Smith, L.B. Greenhouse tomato growing in Virginia. 1919.
General control of insects and fungous diseases, p. 15-22.

28. _____ & Zimmerly, H.H. The life history and biology of the pink and green aphid (*Macrosiphium solanifolii* Ashmead). 1919.
[Spinach blight transmitted by aphids], p. 33-35.

31/32. Smith, L.B. Booms for spraying truck crops. 1919.

33/34. _____ & Zimmerly, H.H. Breeding mosaic resistant spinach, and notes on malnutrition. 1920.

Relation of pressure to effectiveness in spraying tomatoes. 1920/21.

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1. Johnson, T.C. Treatment for scab and early blight on potatoes, mildew on cucumbers and cantaloupes. 1909.

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Va.-2. McClintock, J.A. Peanut-wilt caused by *Sclerotium rolfsii*. 1917.

Va. (Norfolk)-3.

McClintock, J.A. & Smith, L.B. True nature of spinach-blight and relation of insects to its transmission. 1918.

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ANNUAL REPORT
1st-30th 1891-1919/20.

These are mainly brief reports of progress. Investigations in plant pathology have, for the most part, been reported by the Division of botany, but from 1911 to 1913 and from 1917 to date a Division of plant pathology has been maintained by the station.

Report.

1st-2d, 1891-1891/92: No pathology.

3d, 1892/93, p. 9-11: Report of botanist and entomologist. C.V.Piper.

4d, 1893/94, p. 14-18: Report of botanist and entomologist.

5d, 1894/95, p. 19-22: Report of botanist and entomologist.

6d, 1895/96, p. 29-39: Report of botanist and entomologist.

Tomato "blight" studies, p. 30.

7th, 1896/97: No pathology.

8th, 1897/98; p. 7: [Brief note on plant disease investigations].
(In Director's Rept.)

9th-10th, 1898/99-

1899/1900: No pathology.

11th, 1900/01, p. 6-7: Botany and zoology. (In Director's Rept.)

12th, 1901/02, p. 9-10: Report of horticulturist.

13th, 1902/03,

p. 17-20: Report of botanist.

14th, 1903/04, p. 3-4: The smut campaign. (In Director's Rept.)

p. 15: Report of Department of botany and zoology.

15th, 1904/05, p. 30: Report of Department of botany and zoology.

16th, 1905/06,

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[Report of Department of botany.]

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Grain smuts, p. 13.

17th, 1906/07, p. 6-7: Botany. (In Director's Rept.)

p. 14-15: Department of botany. (In Director's Rept.)

18th, 1907/08, p. 8-9: Department of botany. (In Director's Rept.)

19th, 1908/09, p. 8: Department of botany. (In Director's Rept.)

20th, 1909/10, p. 9-10: Department of botany. (In Director's Rept.)

21st, 1910/11,

p. 12-13: Department of botany. (In Director's Rept.,
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22d, 1911/12, p. 16-17: Division of plant pathology. (In Director's
Rept., Bul. 109)

23d, 1912/13: Not published.

24th, 1913/14,

p. 6, 8-10: Division of botany. (In Director's Rept., Bul. 118)

p. 24-27: Division of horticulture. (In Director's Rept.,
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Control of pear blight, 1.27.

p. 36-38: Abstract of Pop. bul. 26, 59, 61 and 65.

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25th, 1914/15, p. 20-26: Division of botany. (In Director's Rept. Bul. 127)
p. 38-41: Division of horticulture. (In Director's Rept. Bul. 127)
Control of pear blight, p. 41.
p. 50: Abstract of Bul. 115.
p. 53-54: Abstracts of Pop. bul. 75, 77, 80.
26th, 1915/16, p. 19-28: Division of botany. (In Director's Rept., Bul. 136)
Tomato blight and related diseases, p. 19-20.
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Wheat smut, p. 22-24.
p. 42-44: Division of horticulture. (In Director's Rept., Bul. 136)
p. 49-50: Abstract of Bul. 125.
p. 50: Abstract of Bul. 126.
p. 54: Abstract of Pop. bul. 100.
27th, 1916/17 (Bul. 152) Not published.
28th, 1917/18, p. 25-27: Division of plant pathology. (In Director's Rept., Bul. 153)
29th, 1918/19, (Bul. 155), p. 30-34: Division of horticulture. O.M. Morris.
Apple rosette, p. 32.
p. 34-38: Division of plant pathology. F.D. Heald.
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30th, 1919/20, (Bul. 158), p. 26-30: The division of horticulture. O.M. Morris.
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p. 30-32: Division of plant pathology. F.D. Heald.
Wheat smut, p. 30-31.
Plant disease survey, p. 31-32.

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No. 1-158. 1891-1920.

Number.

8. Piper, C.V. Common fungous diseases and methods of prevention.
Dodder. 1894.
30. Balmer, J.A. A report on damage to fruit trees caused by the
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46. Brodie, D.A. Potato blight and its treatment. 1901.
54. Beattie, R.K. The formalin treatment for wheat and oat smut. 1902.
59. Piper, C.V. & Root diseases of fruit and other trees caused by
Fletcher, S.W. toadstools. 1903.
64. Lawrence, W.H. The apple scab in western Washington. 1904.
66. _____ Blackspot canker. 1904.
70. _____ The powdery mildews of Washington. 1905.

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75. Lawrence, W.H. Apple scab in eastern Washington. 1906.
83. _____ Some important plant diseases of Washington. 1907.
92. Thomsen, W.S. Cherries in Washington. 1910.
Gummosis, p.10-12.
97. Lawrence, W.H. Anthracnose of the blackberry and raspberry. 1910.
106. Melander, A.L. & The penetration system of orchard spraying. 1913.
Beattie, R.K.
107. Lawrence, W.H. Plant diseases induced by *Sclerotinia perplexa*
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108. _____ Bluestem of the black raspberry. 1912.
115. Humphrey, H.B. Studies on the relation of certain species of
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126. _____ & Bunt or stinking smut of wheat. 1915.
Woolman, H.M.
129. Schafer, E.G. & Oats in Washington. 1916.
Gaines, E.F.
151. Heald, F.D. & ^{1. Loose smut in oats, p.13.} The wind dissemination of the spores of bunt
George, D.C. or stinking smut of wheat. 1918.
154. Sievers, F.J. & Sugar beets under irrigation in Washington. 1919.
Schafer, E.G. Diseases, p.38-40.

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No. 1-9.

"1909-1912.

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3. Lawrence, W.H. Root diseases caused by *Armillaria mellea* in
the Puget Sound country. 1910.
5. _____ Club-root of cabbage and allied plants. 1910.
7. _____ A report covering the work of the Western Wash-
ington experiment station from Nov. 1, 1907 to
Apr. 1, 1911. 1912.
Susceptibility of potatoes to diseases, p.65-69.
Diseases of plants, p.95-102.

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No. 1-120. 1908-1920.

Number.

2. Melander, A.L. The sulphur-lime wash. 1908.
13. Beattie, R.K. & Melander, A.L. Spraying calendar for 1909. 1909.
16. Melander, A.L. & Beattie, R.K. The sulphur-lime wash. 1909.
27. Beattie, R.K. & Melander, A.L. Spraying calendar for 1910. n.d.
28. Melander, A.L. & Beattie, R.K. The lime-sulphur wash. 1910.
33. Beattie, R.K. & Melander, A.L. Spraying calendar for 1911. 1911.
43. _____ Spraying calendar for 1912. 1912.
48. Humphrey, H.B. The preventing of the stinking smut of wheat. 1912.
51. Thatcher, R.W. Commercial arsenates of lead and lime-sulphur. 1913.
52. Melander, A.L. & Humphrey, H.B. Spraying calendar for 1913. n.d.
56. Hall, J.G. "Fire blight" of pear and apple. 1913.
59. _____ & Yothers, M.A. Spraying calendar for 1914. n.d.
64. Melander, A.L. Winter sprays: sulphur-lime-wash and crude oil emulsions. 1914.
65. Hall, J.G. "Fire blight" (Post card) 1914.
73. Woolman, H.M. Stinking smut in wheat. 1914.
77. Melander, A.L. & George, D.C. Spraying calendar for 1915. 1915.
80. Cardiff, I.D. Fire blight. 1915.
82. George, D. C. The yellow blight of the tomato. 1915.
100. Melander, A.L. & Heald, F.D. The control of fruit pests and diseases. 1916.
106. Potato growing in Washington. 1917. Pt. II. Heald, F.D. Potato diseases, p. 15-94.
107. Melander, A.L. Winter sprays: lime-sulphur spray and crude oil emulsions. 1917. (Revision of Pop. bul. 64)
113. Potatoes increase the yield by... control of diseases. (Broadside) 1918.
115. Heald, F.D. The stinking smut of wheat. 1918.
119. Dana, B.F. & Zundel, G.L. Head smut of corn and sorghum. 1920.

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Spray calendar for 1908.

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1 1 Rees, H.L.

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2 1 Stahl, J.L.
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6 _____
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10 Linklater, W.A.
11 Rees, H.L.
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Concerning mold on berries, p.15-16. 1916.

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4 8 Frank, A. Spur blight of red raspberries, p.15. 1916.
10 _____ A new phase of the raspberry rust, p.15-16. 1917.
12 _____ Spraying program for 1917, p.13-19. 1917.
5 1 _____ Plant clean potato seed, p.16. 1917..
4 _____ Summer spraying for garden pests, p.50-58. 1917.
8 _____ Storage rots of potatoes, p.122-123.
10 _____ Four common plant diseases, p.123-124. 1917.
11 _____ Winter work in the orchard, p. 155-156. 1918.
6 3 _____ Orchard spraying, p. 171-172. 1918.
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4 _____ Hill-selection of potatoes with reference to con-
trolling disease, p. 51-52. 1918.
6 _____ Why potatoes rot and how to prevent rotting, p.83.
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7 _____ Black spot canker of apple anthracnose, p. 84. 1918.
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8 _____ Winter treatment for garden diseases and pests,
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11 _____ Sprays and spray materials, p.158-161. 1919.
12 _____ Spring spraying program for 1919, p.181-184. 1919.
7 1 _____ Apple and pear scab, p. 16-18. 1919.
2 _____ Rose diseases and insects, p. 33-35. 1919.
4 _____ Some common fruit diseases, p. 61-63. 1919.
5 _____ Early fall spraying for apple anthracnose, p.82-83.
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6 _____ Late blight of potatoes, p. 98-100. 1919.
7 _____ Potato wart - a dangerous disease, p. 114-115. 1919.
9 _____ The Rhizoctonia disease, p. 143-146. 1919.
10 _____ The disease factor in fruit growing, p.171-174. 1920.
11 _____ Diseases and insect troubles of raspberries,
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12 _____ Spring spraying program for 1920, p.204-208. 1920.
8 1 _____ Diseases and insect pests of blackberries, logan-
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2 _____ Diseases and insect pests of currants and goose-
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6 _____ Some prevalent diseases of stone fruits, p.90-92.
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7 _____ Bitter pit and water core of the apple, p.110-112.
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8 _____ Potato diseases, - Late blight, p.124-126. 1920.
9 _____ Potato diseases II. Scab, p.140-142. 1920.
10 _____ Potato diseases III. Rhizoctonia, p.160-163. 1921.
12 _____ Spring spraying program for 1921, p. 182-186. 1921.

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ANNUAL REPORT.
1st-15th. 1887/88-1901/02. 1911/12-1915/16.

A very few of the early reports give brief administrative accounts of work on plant diseases. From 1902/03 to 1910/11 no reports of the station as a whole were issued. For accounts of the pathological work of this period see the bulletins, and the special reports on the execution of the act to control dangerous insects and plant diseases, which reports are listed immediately following this series.

Reports.

1st, 1887/88: No pathology.
2d, 1888/89: (Also with 3d Rept., p.12-17.) No pathology.
3d, 1889/90-
6th, 1892/93: No pathology.
7th, 1893/94, p.18-30: Report of horticulturist. F.J. Rane.
8th, 1894/95, p.36-45: Report of horticulturist.
9th, 1895/96-
12th, 1898/99: No pathology.
13th, 1899/1900, p.10-15: Horticultural department. (In Director's Rept.)
14th, 1900/01, p.9-10: Abstract of Bul. 66. (In Director's Rept.)
p.11: Abstract of Bul. 70. (In Director's Rept.)
p.21-25: Plant insects and diseases. (In Director's Rept.)
15th, 1901/02, p.14-21: [Brief notes on plant diseases in Director's Rept.]
1902/03-1910/11: Not published.
1911/12, p.25-31: Department of horticulture. W.H. Alderman.
Bitter rot control, p.25, 27.
p.54-57: Department of plant pathology. N.J. Giddings.
p.65-69: Report of Director [on work done under
Chapter 33, Acts 1901, for control of in-
sect and plant diseases] to Dec. 30, 1911.
p.77-78: Potato spraying experiments in 1911.
p.197-211: The chestnut bark disease. (Bul. 137).
p.237-268: Potato culture in West Virginia. (Bul. 140) A.L. Dacy.
Insects and fungous diseases, p.254-62.
1912-13/1913-14, p.27-28: Department of plant pathology. (In Director's Rept.)
1914-15/1915-16, p.44-45: Department of plant pathology. N.J. Giddings.

WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION.

Report of work in the execution of Chapter 33, Acts 1901 (later amended by Chapter 49, Acts 1903), for the destruction of the San Jose scale and other dangerous insects, plant diseases, etc.

1901/02-1909/10.

Report of work.

1901/02, p.42-45:	Diseases. (In Director's Rept.)	
1903/04, p.7-15:	Nursery inspection.	W.E. Rumsey.
p.53-66:	Spraying melons in the Ohio River Valley. Fungi, p.59-64.	F.E. Brooks.
p.67-93:	A report on plant disease of the State.	J.L. Sheldon.
1904/05, p.26-38:	Report of bacteriologist for 1904-5.	
p.38-45:	Report on potato blight - Alternaria.	A.L. Post.
p.46-53:	Potato investigations in 1905. Prevalence of fungous diseases, p.50-53.	T.C. Johnson.
1905/06, p.26-39:	Report of the bacteriologist.	J.L. Sheldon.
1907/08, p.9:	Trees inspected for peach yellows, black knot and San Jose scale. (In Director's Rept.)	
1909/10, p.18-24:	Potato spraying in 1909 and 1910.	N.J. Giddings.
p.44-46:	Some reasons for spraying.	
p.47-49:	Spraying orchards for the control of fungous diseases.	A.L. Dacy.
p.49-52:	Plant diseases of 1909-10.	N.J. Giddings.
p.86-93:	Apple enemies and how to fight them. (Bul. 121.)	W.M. Munson.
p.120-31:	Diseases of garden crops and their control. (Bul. 123.)	N.J. Giddings.

BULLETIN.

No. 1-175. 1888-1920.

Number.

21. Hopkins, A.D. & Millspaugh, C.F. Injurious insects and plant diseases. 1892.

(v.2,no.9)

38. Rane, F.W. Potatoes. Potato blight, potato scab. 1894.

(v.4,no.3)

41. Corbett, L.C. Potatoes. 1896.

(v.4,no.6)

Potato scab, p.197-98.

42. _____

Vegetables. 1896.

(v.4,no.7)

Treatment of [tomato] plants to prevent rot, p.225.

Why, when, what and how to spray. 1896.

(v.4,no.8)

66. _____

Fruit diseases and how to treat them. 1900.

70. _____

Spraying results of the season, 1900. 1900.

75. _____

Apple districts of West Virginia. 1901.

[Variety tables showing prevalence of blight
and scab], p.116-76.

93. Johnson, T.C.

Mixtures and appliances for spraying. 1904.

94. Sheldon, J.L.

Diseases of melons and cucumbers during 1903 and
1904. 1904.

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BULLETIN (Cont.)

Number.

96. Sheldon, J.L. A report on plant diseases of the state. 1905.
104. _____ The ripe rot or mummy disease of guavas. 1906.
121. Munson, W.M. Apple enemies and how to fight them. 1909.
(Also in Rept. 1909/10, p.86-93.)
123. Giddings, N.J. Diseases of garden crops and their control.
1909. (Also in Rept. 1909/10, p.130-31.)
133. Rumsey, W.E. Suggestions for spraying. 1911.
et al
137. Giddings, N.J. The chestnut bark disease. 1912.
(Also in Rept. 1911/12, p.197-211.)
140. Dacy, A.L. Potato culture in West Virginia. 1913.
(Also in Rept. 1911/12, p.437-68.)
Insects and fungous diseases, p.20-28.
147. Jeffries, R.R. An orchard survey of Jefferson county. 1914.
Orchard pests and diseases, p.24-26.
151. Auchter, E.C. An apple orchard survey of Berkeley County. 1915.
Orchard insects and diseases, p.53-56.
Spraying practices, p.56-60.
154. Giddings, N.J. & Apple rust. 1915.
Berg, A.
165. Giddings, N.J. Potato and tomato diseases. 1917.
167. _____ Orchard spraying versus dusting. 1918.
169. Crane, H.L. A study of the factors governing the efficiency of
distribution and rate of discharge of spray
nozzles. 1919.
170. Giddings, N.J. Infection and immunity in apple rust. 1918.

CIRCULAR.

No. 1-33. 1903-1920.

2. Morgan, W.M. Muskmelon blight. 1905.
7. Alderman, W.H. Orchard spraying. 1913.
et al
12. Crane, H.L. Orchard and garden spraying. 1914.
15. Giddings, N.J. & Apple rust or cedar rust in West Virginia. 1915.
Berg, A.

[UNNUMBERED CIRCULAR.]

Spray calendar. 1918. (folio)
Let us spray. 1908-1909.

WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION.

SPECIAL BULLETIN.

No. [1]-4. [1890]-1907.

Number.

2. Hopkins, A.D. Forms of the so-called potato scab caused by insects. 1895.
(v.4, no.3)
4. Rumsey, W.E. & Spraying for San Jose scale and other orchard pests. 1907.
Brooks, F.E. Johnson, T.C. How to spray, p.9-15.

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ANNUAL REPORT.

1st-27th. 1883-1909/10. 1910/11-1919/20. (Not numbered.)

The early reports contain important signed articles on plant diseases, some of which are illustrated. After 1907 the Director's reports, issued as bulletins, give brief accounts of progress on various projects. Until 1909, when a plant pathologist was appointed, the investigations in plant pathology were reported chiefly by the horticulturist and his staff.

Report.

1st, 1883, p.25-27: Corn smut. (*Ustilago Maydis*) W.A. Henry.
p.38-44: The onion mold. (*Peronospora Schleideniana* DeBary) W.Trelease.
p.45-56: The apple scab and leaf blight. (*Fusarium dendriticum*. Wallroth) _____
2d, 1884, p.47-58: The spot disease of strawberry leaves. _____
(*Ramularia tulasnei* Sacc.)
3d, 1885, p.56-59: [Potato rot.] Nature of the disease. _____
(From Mich. Crop Rept., Dec. 1885.) E.F. Smith.
4th, 1886-6th, 1888/89: No pathology. _____
7th, 1889/90, p.193-201: Prevention of apple scab. E.S. Goff.
8th, 1890/91, p.135-41: Experiments with the potato. _____
Treatment for potato blight, p.138-41.
p.160-61: Experiment in the treatment of apple scab. _____
9th, 1891/92, p.264-77: Work in vegetable pathology. _____
p.278-83: Experiments in potato culture. _____
[Potato scab and treatment with sulphur], p.278-81.
p.284-89: Strawberries. E.S. Goff.
[Breeding varieties resistant to blight caused by *Ramularia Tulasnei*], p.284-87.
10th, 1892/93, p.228-52: Work in vegetable pathology. E.S. Goff.
11th, 1893/94, p.327-39: Experiments in strawberry culture. _____
Bordeaux mixture as a preventive of strawberry blight, p.338-39.

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12th, 1894/95: No pathology.

13th, 1895/96, p. 233-42: Miscellaneous horticultural work. E.S. Goff.
Trial of dendrolene on trunks of apple trees [injurious effects], p. 238-40.
Tip-burn of potatoes, p. 240-42.

14th, 1896/97, p. 303-16: Miscellaneous experiments and observations.
Trial of "Ceres pulver" for the prevention of smut in oats, p. 307-09.
The degree of cold endurable by flower buds of the plum and cherry, p. 309-15.

15th, 1897/98, p. 239-49: Methods of improving the efficiency of spraying apparatus.

16th, 1898/99, p. 283-88: The comparative hardiness of flower buds in the cherry.

17th, 1899/1900, p. 227-38: Experiments with grain and forage crops. R.A. Moore.
Treating seed oats to prevent smut, p. 233-34.

18th, 1900/01, p. 255-60: Treatment of seed oats to prevent smut. R.A. Moore.
p. 327-35: The influence of formalin on the germination of oats. F. Cranefield.

19th, 1901/02, p. 217-40: Experiments with grain and forage plants, 1902. R.A. Moore.
Oat smut investigations for 1902, p. 234-38.

p. 268-72: The influence of formaldehyde on the germination of oats. F. Cranefield.

20th, 1902/03, p. 259-62: Black rot of cabbage. H.L. Russell.

p. 284-92: Treatment of seed grain for the prevention of smut. R.A. Moore.

p. 354-59: Native plums. E.S. Goff.
Fungus diseases, p. 359.

p. 363-67: The treatment of seed oats for the prevention of smut. F. Cranefield.

21st, 1903/04, p. 220-42: Preliminary report on cranberry investigations. A.R. Whitson, et al
Diseases, p. 237-38.

p. 271-78: Sixth annual report of the nursery inspector for the state of Wisconsin. C. Bues & E.P. Sandster.

Fungus and bacterial diseases, p. 276-77.

p. 279-88: Some observations on the botrytis rot and drop of lettuce. H.J. Ramsey.

p. 317-20: Oat and barley smut investigations. R.A. Moore.

22d, 1904/05, p. 282-99: Cranberry investigations. A.R. Whitson, et al
Blight, p. 294-95.

p. 322-29: Report of state nursery inspection, 1905. C. Bues.
Apple canker (Sphaeropsis malorum Pk.), p. 327-29.

p. 330-55: Experiments with grain and forage plants, 1905. R.A. Moore & A.L. Stone.
Barley smut, p. 352-55.

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23d, 1905/06, p. 209-18: Potato spraying experiment. E.P. Sandsten &
J.G. Milward.
p. 231-39: Report of state nursery inspection. J.G. Moore.
p. 270-74: Treating seed grains for the prevention of smut. R.A. Moore &
A.L. Stone.
24th, 1906/07, p. 343-50: Observations upon the prevalence of early potato blight (*Alternaria solani*) in Wisconsin. J.G. Milward.
p. 351-54: Potato spraying experiments for 1907. J.G. Moore.
p. 359-78: State nursery inspection. R.A. Moore &
p. 409-10: Barley smut investigations. A.T. Stone.
25th/26th,
1907-08/1908-09, p. 20: Potato and orchard spraying. (In Director's 25th Report, also issued as Bul. 171.)
p. 33-34: Orchard and potato spraying. (In Director's 26th Report, also issued as Bul. 193.)
27th, 1909/10: (Bul. 203)
p. 16-17: Plant disease survey.
1910/11: (Bul. 218)
p. 20-23: [Plant pathology investigations.]
1911/12: (Bul. 228)
p. 4-10: [Plant pathology investigations.]
1912/13: (Bul. 240)
p. 41-43, 47-55: [Plant pathology investigations.]
1913/14: (Bul. 250)
p. 33-39: [Plant pathology investigations.]
1914/15: (Bul. 268)
p. 15-25: [Plant pathology investigations.]
p. 46-47: Certification of seed potatoes.
1915/16: (Bul. 275)
p. 34-40, 70-74: [Plant pathology investigations.]
1916-17/1917-18, p. 5-17: [Plant pathology investigations.]
p. 21-22: Winter injury to cherry blossom buds.
1918/19: (Bul. 319)
p. 26-38: Plant pathology investigations.
1919/20: (Bul. 323)
p. 59-73: [Plant pathology investigations.]

BULLETIN.

No. 1-323. 1883-1920.

Number.

23. Goff, E.S. Prevention of apple scab. 1890.
34. _____ Preventive treatment for apple scab, downy mildew and brown rot of the grape, potato blight and the smut of wheat and oats. 1893.
35. _____ Insects and diseases injurious to cranberries. 1893.

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BULLETIN (Cont.)

Number.

50. Goff, E.S. The hot water treatment for the prevention of smut on oats, wheat and barley. 1896.

63. _____ The culture of native plums in the Northwest. 1897.
Fungous enemies, p.16-20.

65. Russell, H.L. A bacterial rot of cabbage and allied plants. 1898.

72. Goff, E.S. Small fruits in 1898. 1899.
[Diseases of currants and gooseberries], p.30-32.

77. _____ Effects of the February freeze of 1899 upon nurseries and fruit plantations in the Northwest. 1899.

91. Moore, R.A. Oat smut in Wisconsin. 1902.

98. _____ On the prevention of oat smut and potato scab. 1903.

110. Sandsten, E.P. Spraying fruit trees, with notes on the common insects and fungus diseases infesting orchards.

111. Moore, R.A. Oat (grain) smut and its prevention. 1904.

119. Whitson, A.R. A report on cranberry investigations. 1905.
et al Fungus diseases, p.42-43.

135. Sandsten, E.P. The spraying of potatoes for prevention of leaf & Milward, J.G. blight and rot. 1906.

168. _____ Spraying potatoes against blight and the potato beetle.
1908.

207. Moore, J.G. The management of a bearing orchard. 1911.
Spraying, p.25-34.

212. Moore, R.A. & Barley culture in Wisconsin. 1911. (Revised ed. 1914.)
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227. Sanders, J.G. The Wisconsin nursery and orchard inspection service, 1910-1912. 1912.

237. Johnson, J. The control of diseases and insects of tobacco. 1914.

252. Milward, J.G. Potato seed certification in Wisconsin. 1915.

257. Jones, L.R. & Apple rust and its control in Wisconsin. 1915.
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286. Keitt, G.W. Control of cherry leaf spot in Wisconsin. 1918.

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& Leith, B.D. Troublesome diseases of wheat, p.13-14.

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No. 1-54. 1909-1914.

3. Milward, J.G. Directions for spraying potatoes. 1909.
12. _____ Spraying the home orchard. 1910.
36. Jones, L.R. Potato diseases in Wisconsin and their control. 1912.
52. _____ Control of potato diseases in Wisconsin. 1914.

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[MISCELLANEOUS PUBLICATION]

Seed potato certification list for 1916. 1916.

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Number.

15. Melhus, I.E. Experiments on spore germination and infection in certain species of Oomycetes. 1911.
18. Stout, A.B. A sclerotium disease of blue joint and other grasses. 1911.
31. Johnson, J. The control of damping-off disease in plant beds. 1914.
32. _____ Black rot, shed burn and stem rot of tobacco. 1914.
37. Melhus, I.E. Germination and infection with the fungus of the late blight of potato (*Phytophthora infestans*). 1915.
38. Jones, L.R. & Gilman, J.C. The control of cabbage yellows through disease resistance. 1915.
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46. Jones, L.R. et al Frost necrosis of potato tubers. 1919.
48. _____ et al Fusarium resistant cabbage. 1920.

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Goff, E.S. The prevention of oat smut. 1901.

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Wis.-6. Johnson, J. Host plants of *Thielavia basicola*. 1916.
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Wis.-9. Jones, L.R. et al Bacterial-blight of barley. 1917.
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ANNUAL REPORT.
1st-30th. 1891-1919/20.

In some of the early reports, statements are made to the effect that the plants of the state are remarkably immune to disease, which is in part attributed to the dryness of the climate. The reports contain little pathological material, except brief administrative accounts in Reports of the botanist.

Report.

1st, 1891-5th, 1895: No pathology.

6th, 1896, p.14-17: Report of botanist. (In Director's Rept.)

7th, 1896/97, p.13-15: Report of botanist. (In Director's Rept.)

8th, 1897/98: No pathology.

9th, 1898/99: No pathology.

10th, 1899/1900: 3 p. (separately paged)
Germination of wheat and oats treated for smut.
38 p. (separately paged)
Cryptogams of Wyoming. Aven Nelson.
The fungi, p.18-19.

11th, 1900/01: No pathology.

12th, 1901/02, p.58-59: Report of botanist.

13th, 1902/03, p.35-37: How to prevent smut in grain. B.C. Buffum.
(Press bul. 15)

p.37-40: Potato disease and treatment of seed.
(Press bul. 16)

14th, 1903/04: No pathology.

15th, 1904/05, p.21-23: The state board of horticulture. [Nursery
inspection law]. (In Director's Rept.)
p.30-33: Report of agriculturist and horticulturist.

16th, 1905/06, p.52-53: Report of botanist.

17th, 1906/07, p.60-62: Report of botanist.

18th, 1907/08-
21st, 1910/11: No pathology.

22d, 1911/12, p.24-26: Suggestions to potato growers on irrigated
lands. [Prevention of diseases]. T.S. Parsons.
(Press bul. 2)

p.28-29: Watch your potatoes. [Spraying
calendar,] (Press bul. 4)

23d, 1912/13, p.30-32: Treatment of loose and stinking smut. A.E. Bowman.
(Press bul. 7)

p.32-34: The formaldehyde treatment for grain
and potatoes. (Press bul. 8) T.S. Parsons.

24th, 1913/14, p.176-79: Plant enemies. (Press bul. 13)

25th, 1914/15-
30th, 1919/20: No pathology.

WYOMING AGRICULTURAL EXPERIMENT STATION.

BULLETIN.

No. 1-125. 1891-1920.

Number.

15. Nelson, A. The winter-killing of trees and shrubs. 1893.
16. Buffum, B.C. Grasses and forage plants. 1893.
Blue stem [ergot (*Claviceps purpurea*)], p.238-39.
21. Nelson, A. The grain smuts and potato scab. 1895.
29. Buffum, B.C. Alkali: some observations and experiments. 1896.
[Injurious] effects upon vegetation, p.226-49.
32. _____ Potatoes. 1897.
Insect enemies and diseases of potatoes, p.12-17.
39. Slosson, E.E. & Alkali studies, II. 1898.
Buffum, B.C. Effects of different alkali salts on seed germination, p.52-56.
43. Buffum, B.C. Alfalfa as a hay crop. 1900.
Winter killing, p.73-74.
Alfalfa and alkali soils, p.74-76.
Enemies of alfalfa. Dodder, p.81-82.
71. [Nelson, A.] Some potato diseases, their causes and control. 1907.
88. Prien, O.L. & Woody aster (*Xylorruza Parryi* Gray). 1911.
Raiford, L.C. Nelson, A. Puccinia, p.10-12.

CIRCULAR.

No. 1-15. 1920.

The circular series, started in 1920, contains no pathological material.

PRESS BULLETIN.

No. 1-5 1895-1897; [n.s.] 1-16 1901-1903;
[n.s.] 1-13 1912-1914.

15. Buffum, B.C. How to prevent smut in grain. 1903.
16. _____ Potato disease and treatment of seed. 1903.
[n.s.] 4. Parsons, T.S. Watch your potatoes. [Spraying calendar]. 1912.
(Also in 22d Rept., p.28-29.)
7. Bowman, A.E. Treatment of loose and stinking smut. 1913.
(Also in 23d Rept., p. 30-32.)
8. Parsons, T.S. The formaldehyde treatment for grain and potatoes.
1913. (Also in 23d Rept., p.32-34.)
13. _____ Plant enemies. 1914. (Also in 24th Rept., p.176-79.)

